Reference Guide for the DS7400Xi (Ver. 4+) Control/Communicator

Armed	Perimeter Supervisory Bell Silenced Trouble	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 TEST WEEKLY	On
	1	2 3	Off
	4	5 6	Perimeter Only
	7	89	No Entry
	*	0 #	Bypass
	\bigcirc	\bigcirc	System Reset

DS7445/DS7445i

Armed Status Power Fire	TEST WEEKI Y	0
		On
	1 2 3	Off
	4 5 6	Perimeter Only
	7 8 9	No Entry
	* 0 #	Bypass
	$\bigcirc \bigcirc \bigcirc$	System Reset

DS7447/DS7447E

Keypad Quick Reference Guide

Turning On (arming) your System using the DS7445/DS7445i or DS7447/DS7447E Keypad

Commands for other System Features

<u> </u>	, <u>pam</u>	Chime Mode	[PIN] + [#] [7]		
Normal Arming	[PIN] + [On]	System Walk Test	[PIN] + [#] [8] [1]		
Perimeter Arming, no entry delay	[PIN] + [No Entry] + [Perimeter Only]	Read Event History	[PIN] + [#] [8] [9]		
Perimeter Arming, with entry delay [PIN] + [Perimeter Only]		Battery Test	[PIN] + [System Reset]		
Maximum Security Arming	[PIN] + [No Entry] + [On]	Communicator Test	[PIN] + [#] [8] [2]		
Custom Arming	[PIN] + [#] [4]	Fire Reset	[PIN] + [System Reset]		
Set Delayed Arming $[P[N] + [#] [0] and enter$		Remote Program Dial-out	[PIN] + [#][8] [3]		
	number of hours from	Remote Program Answer	[PIN] + [#] [8] [6]		
	current time to the desired arming time.	Battery/Sounder Test	[PIN] + [#] [8] [5]		
Extend Automatic Arming	[PIN] + [OFF] during pre-	Error Display	[PIN] + [#] [8] [7]		
	arm time	Error Display Reset	[PIN] + [System Reset]		
Force Arming	Enter an arming	Fire Walk Test	[PIN] + [#] [9] [1]		
	command followed by [Bypass]	To Silence a Fire Trouble/Alarm	[PIN] + [Off]		
Zone Bypass	[PIN] + [Bypass] followed	To Clear a Fire Trouble Display	[PIN] + [System Reset]		
	by the Zone number.	Access Control			
	[PIN] +[Bypass] [*] to clear ALL Bypasses.	Enter your [Access Control PIN] followed by [Off]			

Turning Off (disarming) your System

Enter your [PIN] followed by [Off]

NOTE: For additional information on operating this system, consult the DS7400Xi (Ver. 4+) User's Guide (P/N: 43851) and section 7 of this Reference Guide.



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Specifications 1.0

1.1 **Enclosure Housing**

The standard enclosure is manufactured from 20 Guage (1.0 mm), cold-rolled steel, and measures 12.5 by 14.5 by 3 inch (31.8 by 36.8 by 7.6 cm) (HxWxD). A keyed lock is included, and this enclosure has provision for an optional tamper switch (required for commercial burglary applications) for monitoring the door.

1.2 Storage and Operating Temperature

• Temperature: +32°F to +120°F (0°C to +49°C)

1.3 Power

- NOTE: The total current output capacity for all auxiliary devices, including keypads and smoke detectors = 1.5 A standby, 2.5 A alarm. The following ratings are maximum values. The total combined output cannot exceed the maximum load current.
- Input power: 18 VAC, 50 VA, 50 Hz./60 Hz. Auxiliary power: 12 VDC, 1.0 A max. • UL Listed Alarm Power Output: 12 VDC. 1.75 A max. 12 V special application Auxiliary power voltage range:
- Optional Standby battery (P334): 12 V, 7.0 Ah 35 Ah max.
- Control panel current draw: 175 mA, Standby 250 mA, Alarm

1.4 Outputs

- Alarm Output: 12 VDC, 1.75 A output. Can be programmed for steady or pulsed output.
- Programmable Solid state current sink (1.0 A max.). Shorts to Aux. negative when activated. Connect device to Aux. power positive. Can be used for alarm, Output 1* arming state, or access control.** This output is generally programmable.
- Programmable Solid state voltage source (500 mA max.). Can be used for alarm, arming state, or access control.** This output is generally Output 2* programmable. For use with such compatible devices as the Listed DS250 with a 4-wire base.
- * = Current draw should be subtracted from either maximum auxiliary or maximum alarm current draw.
- ** = Not investigated to the requirements of UL294.

1.5 **Zones**

- 8 on-board zones. Up to 248 total zones with expansion modules.
- Zone Response Time: 300 ms.

1.6 **Keypads**

- Maximum # of keypads: 15 Keypads
- Maximum wire length each: 1000 feet (305 m)
- Maximum wire length total: 6000 feet (1830 m) in system 4 conductor, unshielded, #22 AWG • Wire type: (0.8 mm) "Telephone quad" or #18 AWG (1.0 mm) quad wiring can be home-run or daisy- chained.
- NOTE: No more than 2 keypads (#22 AWG) or 3 keypads (#18 AWG) are recommended on any 1000 foot (305 m) run.
- NOTE: Shared cable is not recommended for keypad, multiplex, options bus, telephone, or siren wiring.

NOTE: Fire Systems installed under NFPA-72 or UL Listed Fire Systems require the use of 18 AWG or larger wire.

1.7 Communicator

Will report to two phone numbers with full single, double and backup reporting. Communicates in SIA (110 or 300 baud), 3/1, 3/1 Ext., 3/1 with Parity, 3/1 Ext. with Parity, 4/1, 4/2, BFSK, Contact ID, and Pager formats.

FCC Registration Number is ESVUSA-75333-AL-E

The ringer equivalence is 0.1B

Commercial Fire CSFM Listing Number is 7165-1062:113 Residential Fire CSFM Listing Number is 7167-1062:114

1.8 Partitions

The system has the capacity for 8 independent partitions. One partition may be a common area.

1.9 Users

The DS7400Xi Ver 4+ system allows up to 200 individual users. Each user will have his own PIN number (the 4- or 6-digit code entered at the keypads) and his own authority level (to determine which functions he may perform).

1.10 Lightning Protection

MOVs and spark gaps provide protection from lightning surges and static discharges.

Burglar/Fire Zone Inputs 1.11

- Number of circuits: End-of-line resistor:
- 8 Circuits on-board 2.2 kΩ (P/N 25899, provided)

2.2 kΩ (P/N 25899, provided)

DS7400Xi (4+) Reference Guide

 Loop resistance tolerance: 60 ohms

Fire Signal Initiating Circuit (2-wire mode) 1.12

Fire circuit will work with 2- or 4-wire detectors and has optional alarm verification.

5.5 mA

22 mA

60 ohms

8.5 to 14.1 VDC

- Number of circuits: 8 Circuits on-board Class B, latching
- Type of circuit:
- End-of-line resistor:
- Supervisory current:
- Maximum short circuit current:
- Maximum line resistance:
- Circuit voltage range:
- Total detector standby current: 2.5 mA

1.13 Multiplex Bus Wiring Requirements

NOTE: Do **not** use twisted-pair or shielded cable. Do **not** share cable with the keypad lines.

- #22 AWG (0.8 mm). Up to 2000 feet (610 m) per system.
- #18 AWG (1.0 mm). Up to 5000 feet (1525 m) per system.

1.13.1 Multiplex Zone Loop Wiring

• Maximum wire length not to exceed 500 feet (150m) regardless of the wire gauge.

1.14 **Option Bus Wiring Requirements**

• Maximum wire length 1000 feet (305 m) per home-run.

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1.15 Max. Load Currents

Max. Load Currents	Standby	Alarm				
UL Installations	1.5 A	2.5 A				
Maximum Current By Output: Not to exceed the maximum load currents listed above in Standby or Alarm						
Aux. Power & Keypad (Combined)	1.0 A	1.0 A				
Option Power	1.0 A	1.0 A				
Bell Output	Х	1.75 A				
Programmable Output 2	500 mA	500 mA				
Loop Power +	500 mA	500 mA				

1.16 Backup Battery Calculation

• The following table is used to calculate the standby battery capacity required by NFPA when using the DS7400Xi:

Device Quantity Standby Current Total Standby Alarm Current Total Alarm per Device per Device Current Current (Quantity x Standby (Quantity x Alarm Current per Device) Current per Device) DS7400Xi (4+) Control Panel 1 175 mA 175 mA 250 mA 250 mA DS7416i Advanced Radio Communications Module 127 mA 127 mA DS7412 - RS232 Serial Interface Module 35 mA max. 35 mA max DS7420i -Dual Phone Line/Bell Supervision Module 20 mA 140 mA DS7430 – Multiplex Expansion Module 65 mA 65 mA DS7432 - 8-Input Remote Module 10 mA 10 mA 80 mA* DS7433 – 8-Input Direct Module 65 mA DS7436 - Dual Multiplex Expansion Module 130 mA 130 mA DS7445/DS7445i Keypad 75 mA 75 mA DS7447/ DS7447E Keypad 100 mA 100 mA DS7448 Keypad 80 mA 100 mA DS7450, DS7452, DS7455 Contact Points 350 µA 350 µA DS7457 - Single Zone Multiplex Input Module 350 µA 350 uA DS7460 - Dual Zone Module 1 mA 1 mA DS7465 - Input/Output Module 1 mA 1 mA DS7480 – Bell Supervision Module 7 mA 50 mA DS7481 - Single Phone Line Monitor 20 mA 20 mA DS7488 - Octal Relay Module** 10 mA + 40 mA** 10 mA + 40 mA** DS7489 - Solid State Output Module 750 mA max.*** 10 mA MX280 Series Multiplex Smoke Detectors 500 µA 560 µA MX540 (DS7473) PIR Detector 800 µA 800 µA MX835 TriTech® PIR/Microwave Detector 6 mA 35 mA MX775 (DS7470) PIR Detector 200 µA 200 µA MX794 (DS7474) PIR Detector 800 µA 800 µA MX934 (DS7471) PIR Detector 200 µA 200 µA MX938 (DS7472) PIR Detector 200 µA 200 µA MX950 (DS7476) TriTech[®] PIR/Microwave Detector 35 mA 6 mA **RF3222 Wireless Receivers** 30 mA 30 mA 2-Wire Smoke Detectors 4-Wire Smoke Detectors Bells, Horns, etc. Other Sensors Other Grand Total Grand Total

* = Add 15 mA for each additional zone in alarm.

** = When calculating Standby and Alarm Current for the Octal Relay Module, use 10 mA plus 40 mA for each activated relay.

*** = Maximum current draw if using the DS7400Xi Panel power supply. Total of all outputs cannot exceed 750 mA.

1.17 Standby Current Load

• Battery Ah - (20% Storage + 0.375 Ah Alarm)

• The following table is the derated battery divided by hours minus the control standby (175 mA):

Rechargeable Battery Size	Max. Standby for 4 hours	Max. Standby for 8 hours	Max. Standby for 24 hours	Max. Standby for 48 hours	Max. Standby for 60 hours	Max. Standby for 72 hours	Max. Standby for 80 hours
7 Ah	1.0 A	470 mA	Х	Х	Х	Х	Х
8 Ah	1.2 A	580 mA	Х	Х	Х	Х	Х
14 Ah	1.5 A	1.1 A	270 mA	Х	Х	Х	Х
15 Ah	1.5 A	1.2 A	300 mA	Х	Х	Х	Х
17.2 Ah	1.5 A	1.5 A	380 mA	100 mA	Х	Х	Х
21 Ah	1.5 A	1.5 A	500 mA	160 mA	100 mA	Х	Х
28 Ah	1.5 A	1.5 A	740 mA	280 mA	190 mA	130 mA	100 mA
30 Ah	1.5 A	1.5 A	800 mA	310 mA	210 mA	150 mA	120 mA
35 Ah	1.5 A 1.5 A 970 mA 400 mA 280 mA					200 mA	170 mA
DS7400Xi (4+)	Reference Guide	Co	opyright © 2007	Bosch Security S	ystems, Inc.	P/N: F01U035	325-01 Page 5

1.18 Options

- DS7412: RS232 Serial Interface module. The DS7412 module allows the panel to send event information, in an ASCII format, directly to a serial printer or computer. In addition, the interface allows the direct connection of a computer to the panel for programming via the WDSRP programming software.
 Current Draw= 25 mA; 35 mA with LEDs on.
 DS7416i: Advanced Radio Communications Module provides a means of communicating alarm and supervision signals using the Motient radio network. This can be a replacement for, or a complement to, the standard digital communicator.
 Current draw = 127 mA Standby and Alarm.
- DS7420i: Dual Phone Line/Bell Supervision Module (1 per system). The DS7420i allows the control to be used in NFPA 72 installations. It provides two supervised 12.0 VDC signaling outputs, one Class A (Style D) input zone, and dual phone line transmission and supervision.
 Current Draw = 20 mA Standby; 140 mA Alarm.
- **DS7430:** Multiplex Expansion Module (1 per system). The DS7430 provides a two-wire multiplex bus for the connection of additional remote zones. It also supplies up to 200 mA for 4-wire multiplex devices such as the DS7432.
 - Current Draw = 65 mA, Standby; 65 mA, Alarm.
- DS7432: 8-Input Remote Module (up to 30 per system. Requires a DS7430 or DS7436 Multiplex Expansion Module).

The DS7432 provides a means of monitoring conventional Normally Open or Normally Closed contacts. It reports their status to the control panel as multiplex addresses. It occupies eight multiplex zones on the system and can monitor up to eight separate loops. It will support 4-wire smoke detectors.

- Current Draw = 10 mA; Standby. 10 mA, Alarm.
- DS7433: 8-Input Direct Module (1 per system. Can not be used with the DS7430 or DS7436 Multiplex Expansion Modules). The DS7433 provides a means of expanding the

system to include eight additional hard-wired zones. Each zone can support up to twenty 2-wire smoke detectors (can also support 4-wire smoke detectors).

- Current Draw = 65 mA, Standby; 80 mA, Alarm. Add 15 mA for each additional zone in alarm.
- DS7436: Multiplex Expansion Module. (1 per system.) The DS7436 provides two two-wire multiplex buses for the connection of up to 120 remote points. It also supplies 200 mA per bus.
 - Current Draw = 130 mA, Standby or Alarm.
- DS7445/DS7445i: Control Station. (15 Keypads max. per system). The DS7445/DS7445i is an LED keypad which has LEDs representing the first 8 zones of the system. It displays information on various control panel functions. A built in sounder is used as an interior warning device and to annunciate keystroke entries.
 - Current Draw = 75 mA, Standby; 75 mA, Alarm.

• DS7447/DS7447E: Control Station. (15 Keypads max. per system)

The DS7447/DS7447E is an Alpha-Numeric LCD keypad. It displays information on various control panel functions. A built-in sounder is used as an interior warning device and to annunciate keystroke entries.

- Current Draw = 100 mA, Standby; 100 mA, Alarm.
 Keypad Access Output: The DS7447/DS7447E Alpha Keypad will provide a ten (10) second access relay output if equipped with the optional K800 Relay. The relay will energize at the keypad if the user has a master, unlimited, general, or access PIN. The output will change only if the user has access to the partition assigned to the keypad. See the DS7445/DS7447 Keypad Installation Instructions (P/N: 22235) or the DS7445/DS7445i/DS7447E Installation Instructions (P/N: 4998138630) for wiring information.
- DS7448: Control Station. (15 Keypads max. per system) The DS7448 is a four-wire LCD annunciator keypad. It has a Silence key and a Reset key used for controlling annunciator and control panel operation, a Keylock Switch that can be used to lock out the annunciator to prevent unwanted silencing or resetting of the control panel, and a two-line, 16-character Display capable of showing all messages normally displayed on a DS7447/ DS7447E keypad.
 - Current Draw = 80 mA, Standby; 100 mA, Alarm
- DS7450: Flush Mount Single Multiplex Contact Point (requires a DS7430 Multiplex Expansion Module). The DS7450 is intended as a replacement for conventional dry contacts, and to report an actual multiplex address to the control panel. Occupies 1 zone.
 - Current Draw = 350 μA, Standby; 350 μA, Alarm.
- DS7452: Surface Mount Single Multiplex Contact Point (requires a DS7430 Multiplex Expansion Module). The DS7452 is intended as a replacement for conventional dry contacts, and to report an actual multiplex address to the control panel. Occupies 1 zone.
 Current Draw = 350 µA Standby: 350 µA Alarm
 - Current Draw = 350 μ A, Standby; 350 μ A, Alarm.
- DS7455: Surface Mount Single Multiplex Contact Point (requires a DS7430 Multiplex Expansion Module). The DS7455 is intended as a replacement for conventional dry contacts, and to report an actual multiplex address to the control panel. Occupies 1 zone.
 - Current Draw = 350 μA, Standby; 350 μA, Alarm.
- DS7457: Single Zone Multiplex Input Module (requires a DS7430 Multiplex Expansion Module). The DS7457 provides a means of monitoring conventionally Normally Open or Normally Closed contacts. It reports their status to the control panel as multiplex addresses. It occupies one multiplex zone on the system and can monitor one loop. It also includes a tamper loop.
 - Current Draw = 350 μ A, Standby; 350 μ A, Alarm.

	• DS7460:	 Dual Zone Module (up to 60 per system. Requires a DS7430 Multiplex Expansion Module). The DS7460 provides a means of monitoring conventional Normally Open or Normally Closed contacts. It reports their status to the control panel as multiplex addresses. It occupies two multiplex zones on the system and can monitor up to two separate loops. Current Draw = 1 mA, Standby; 1 mA, Alarm. 	• DS9484	: The DS9484 is a Remote Notification Appliance Circuit (NAC) Power Supply designed to add four additional NACs (NFPA 72 Class B, Style Y) to a Fire Alarm Control Panel (FACP). When connected to the Options Bus of the DS7400Xi, it can provide intelligent control of its individual outputs. It supplies 6 A of NAC power through four circuits to drive horn strobe loads. It is UL Listed as a fire accessory for use in Commercial fire applications and as a continuous-load power supply for auxiliary
	• DS7465:	 Input/Output Module (up to 60 per system. Requires a DS7430 Multiplex Expansion Module). The DS7465 provides a Form "C" relay that may be programmed to activate on system events, and an input loop to monitor conventional Normally Open or Normally Closed contacts. It reports their status to the control panel as multiplex addresses. Current Draw = 1 mA Standby; 1 mA with relay energized. Occupies 2 zones. 	• MX280:	 and as a continuous-load power supply for auxiliary devices. Current Draw = 150 mA, Standby; 6 A maximum, Alarm Multiplexed Photoelectric Smoke Detector (up to 120 detectors may be used per system. Requires a DS7430 and occupies one multiplex zone). Detects smoke and automatically determines the detector's sensitivity using the Detection Systems "Chamber Check" feature. Current Draw = 500 μA, Standby; 560 μA, Alarm.
	• DS7480:	 Bell Supervision Module (1 per system). The DS7480 provides a means of monitoring bells. It provides a supervised (polarity reversing) output relay to activate the bell. It also provides a Form "C" Bell Fault Output to be connected to the control panel. Current Draw = 7 mA @ 12 VDC, Standby; 50 mA @ 12 VDC, Alarm. 	• MX2801	 TH: Multiplexed Photoelectric Smoke Detector with a 135°F heat sensor (up to 120 detectors may be used per system. Requires a DS7430 and occupies one multiplex zone). Detects smoke and is equiped with a 135°F heat sensor for high temperature alarms. The Detection Systems "Chamber Check" feature automatically determines the detector's sensitivity. Current Draw = 500 μA, Standby; 560 μA, Alarm.
	• 037461.	The DS7481 provides a means of monitoring a single phone line for fault conditions. When a fault is detected, the DS7481 automatically closes its Normally Open relay contacts to provide a means of signaling the fault. • Current Draw = 20 mA, Standby; 20 mA, Alarm.	• MX2801	THL: Multiplexed Photoelectric Smoke Detector with a 135°F heat sensor and a 45°F freeze alarm (up to 60 detectors may be used per system. Requires a DS7430 and occupies two multiplex zones). Detects smoke and is equiped with a 135°F heat sensor for high temperature alarms and a 45°F sensor for freeze
	• DS7488:	Octal Relay Module (2 per system). The DS7488 provides 8 Form "C" relay outputs for addition to the system. The outputs are fully programmable and can be activated by system events. Each output operates individually of the other 7 outputs for complete flexibility.	• MX540:	 alarms. Freeze alarms are reported separately from smoke and high temperature alarms. The Detection Systems "Chamber Check" feature automatically determines the detector's sensitivity. Current Draw = 500 μA, Standby; 560 μA, Alarm. Multiplexed Passive Infrared (PIR) Intrusion Detector (DS7473) with a standard range of 40 by 50 feet (12)
	• DS7489:	when energized. Solid State Output Module (2 per system). The DS7489 is a Solid State Octal Driver Module that		 by 15 meters). Requires a DS7430 and occupies one multiplex zone. Current Draw = 200 μA, Standby; 2 mA, Alarm.
	provides 8 open collector transistor outputs. The outputs are fully programmable and can be activated by system events. Each output operates individually of the other 7 outputs for complete flexibility. The DS7489 Module has not been investigated by Underwriters Laboratories, Inc.	• MX835	 TriTech Microwave/PIR Intrusion Detector with "Pet Avoidance" technology and a standard range of 35 by 35 feet (10.7m by 10.7 m). Requires a DS7430 and occupies one multiplex zone. Current Draw = 6 mA, Standby; 35 mA in "Trouble" and Walk Test mode. 	
	 Current Draw = 10mA. Outputs: Provides a current sink (the output shorts to common (-) when activated). The maximum current draw for all 8 outputs combined cannot exceed 750 mA. 	• MX775	 Multiplex Passive Infrared (PIR) Intrusion Detector with (DS7470) a standard range of 50 by 50 feet (15 m by 15 m). Requires a DS7430 and occupies one multiplex zone. Current Draw = 200 μA, Standby; 2 mA in Walk Test mode. 	

- MX794 The MX794 is a Long Range Multiplex PIR intrusion (DS7474) Detector with Self-test. The standard ranges are 80 ft. by 50 ft. (24.0 m by 15.0 m) and 200 ft. by 10 ft. (61.0 m by 3.1 m). Requires a DS7430 and occupies one multiplex zone.
 - Current Draw = 800 μ A, Standby; 2 mA, Alarm.
- MX934 Multiplex Passive Infrared (PIR) intrusion detector with (DS7471) a standard range of 35 by 35 feet (10.7 m by 10.7 m). Requires a DS7430 and occupies one multiplex zone.
 - Current Draw = 200 μA, Standby; 2 mA in Walk Test mode.
- MX938 360° Ceiling Mount Multiplex PIR Intrusion Detector (DS7472) with a 60 foot (18.3 m) diameter range. Requires a DS7430 and occupies one multiplex zone.
 - Current Draw = 200 μA, Standby; 2.5 mA in Walk Test mode.
- MX950 Multiplex TriTech Microwave/PIR Intrusion Detector (DS7476) with motion monitor and antimask features and with a standard range of 50 by 50 feet (15 m by 15 m). Requires a DS7430 and occupies one multiplex zone.
 - Current Draw = 6 mA, Standby; 35 mA in "Trouble" and Walk Test mode.
- **RF3222:** 120-zone Wireless Receiver. (up to two receivers per system. Requires use of a DS7430 or DS7436 Multiplex Expansion Module.) See the *DS7400Xi* (4+) Wireless Reference Guide (*P/N: 44575*) for more information.
 - Current Draw = 30 mA

The control/communicator is also available in three package formats. The packages include the following:

- DS7400XiF: DS7400Xi in large red enclosure manufactured from 18 Guage (1.2 mm), cold-rolled steel, measuring 15.0 by 20.75 by 4.25 inch (38.1 by 52.7 by 10.8 cm) (HxWxD).
- DS7400XiFCP: DS7400XiF package with: DS7420i, DS7447/ DS7447E and a AE-TR16
- DS7400XiCC: DS7400Xi in an Attack Enclosure.

When installing a UL Listed system, refer to Section 11.0, Installation Guide for UL Listed Systems.

2.0 Enclosure Installation

The DS7400Xi control/communicator and the enclosure are shipped together. The control, however, still needs to be installed into the enclosure. Hardware for mounting the enclosure to a wall, and the control to the enclosure is located in its own hardware pack.

2.1 Install the Enclosure

- Use the enclosure as a template and mark the top mounting holes on the mounting surface.
- Pre-start the mounting screws for these two holes. Slide the enclosure onto these mounting screws so that the screws move up into the thinner section of the holes. Tighten the screws.
- Screw in the remaining two screws in either set of bottom mounting holes.
- Knock out the desired wire entrances on the enclosure.

2.2 Install the Control/Communicator



The control is static sensitive. Make sure you touch earth ground before handling the control. This will discharge any static electricity in your body. Example: Run the ground wire to the enclosure before handling the control. Then keep holding the ground wire while installing the control.

- Insert the three support posts into the control retainer holes as shown in the diagram.
- Slide the top of the control into the retainer tabs (the slots under the top frame).
- Once in the retainer tabs, the control will rest on the three support posts.
- Secure the bottom of the enclosure by screwing the bottom three holes through the support posts and through to the control retainer holes.



Once the control is installed, be sure to connect its ground wire to the top hinge of the enclosure (the unpainted tab).







Page 11

Name			Contac	t Person			
Address				Phone Number			
Addie33			Panel F	hone Number			
City, State, Zip			Panel A	nswers Phone	Armed	Disarmed	
- ,, , 1							
		Equip	ment Locati	on and Notes			
AC Voltage	VAC	Battery Voltag	je	VDC AUX Cur	rent	A	
Battery Standb	у	Ah Bell Curre	ent	_A			
Control Panel							
Transformer _							
Telephone Jac	k						
Telephone On	Same Line as	Panel					
Earth Ground	Connection						
Alarm Sounde	r (s)						
			Misc. No	otes			
				- ()			
		n	еурай сос	ixample	lotes		
			Location	Belongs to Partition	Maste Stand	r/ ard	
		Kevpad # 1	Kitchen	2	Maste	r	
	Location	Belongs to Partition	Master/ Standard	L	ocation	Belongs to Partition	Master/ Standard
Keynad # 1				Keypad # 9			·
				Keypad # 10			
Keypad # 2				- Keypad # 11			
Keypad # 2 Keypad # 3		1					
Keypad # 2 Keypad # 3 Keypad # 4				Keypad #12			
Keypad # 2 Keypad # 3 Keypad # 4				Keypad # 12			
Keypad # 2 Keypad # 3 Keypad # 4 Keypad # 5				Keypad # 12 Keypad # 13			
Keypad # 2 Keypad # 2 Keypad # 3 Keypad # 4 Keypad # 5 Keypad # 6				Keypad # 12 Keypad # 13 Keypad # 14			

Personal Identification Number Information

	Example													
					User	PIN Pin #	N Inforn Auth	Nation	Name					
					#		Level	tions						
					002	1001	6	1, 2, 4	James L.					
	PI	N Inforn	nation			PI	N Inform	nation			PI	N Inforn	nation	
User #	Pin #	Auth. Level	Parti- tions	Name	User #	Pin #	Auth. Level	Parti- tions	Name	User #	Pin #	Auth. Level	Parti- tions	Name
001					034					067				
002					035					068				
003					036					069				
004					037					070				
005					038					071				
006					039					072				
007					040					073				
008					041					074				
009					042					075				
010					043					076				
011					044					077				
012					045					078				
013					046					079				
014					047					080				
015					048					081				
016					049					082				
017					050					083				
018					051					084				
019					052					085				
020					053					086				
021					054					087				
022					055					088				
023					056					089				
024					057					090				
025					058					091				
026					059					092				
027					060					093				
028					061					094				
029					062					095				
030					063					096				
031					064					097				
032					065					098				
033					066					099				
DS7400>	(i (4+)	Reference	e Guide		Copvri	ght © 20	07 Bosc	h Securi	ty Systems.	Inc.	P/N: FC	100353	25-01	Page 13

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5.0 System Worksheet (continued)

Personal Identification Number Information

	PIN Information				PI	N Inforn	nation		PIN Information						
User #	Pin #	Auth. Level	Parti- tions	Name	User #	Pin #	Auth. Level	Parti- tions	Name	User #	Pin #	Auth. Level	Parti- tions	Name	
100					134					168					
101					135					169					
102					136					170					
103					137					171					
104					138					172					
105					139					173					
106					140					174					
107					141					175					
108					142					176					
109					143					177					
110					144					178					
111					145					179					
112					146					180					
113					147					181					
114					148					182					
115					149					183					
116					150					184					
117					151					185					
118					152					186					
119					153					187					
120					154					188					
121					155					189					
122					156					190					
123					157					191					
124					158					192					
125					159					193					
126					160					194					
127					161					195					
128					162					196					
129					163					197					
130					164					198					
131					165					199					
132					166					200					
133					167										
			-					-							

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		Type *	Zon Fui	Example e/Output nction #	Partition & L	ocation		* = SZ: Single Zo MZ: Multiple IO: DS7465	one Input Zone Input	
	Zone	#1 SZ	Znl	Funct. 1	2, Kitcl	hen		(see sec	tion 10.3)	
	Type *	Zone/Out Functior	put 1 #	Partition	& Location		Туре	* Zone/Output Function #	Partition & Loo	catio
Zone # 1						Zone	# 31			
Zone # 2						Zone	# 32			
Zone # 3						Zone	# 33			
Zone # 4						Zone	# 34			
Zone # 5						Zone	# 35			
Zone # 6						Zone	# 36			
Zone # 7						Zone	# 37			
Zone # 8						Zone	# 38			
Zone # 9						Zone	# 39			
Zone # 1	0					Zone	# 40			
Zone # 1	1					Zone	# 41			
Zone # 1	2					Zone	# 42			
Zone # 1	3					Zone	# 43			
Zone # 1	4					Zone	# 44			
Zone # 1	5					Zone	# 45			
Zone # 1	6					Zone	# 46			
Zone # 1	7					Zone	# 47			
Zone # 1	8					Zone	# 48			
Zone # 1	9					Zone	# 49			
Zone # 2	0					Zone	# 50			
Zone # 2	1					Zone	# 51			
Zone # 2	2					Zone	# 52			
Zone # 2	3					Zone	# 53			
Zone # 2	4					Zone	# 54			
Zone # 2	5					Zone	# 55			
Zone # 2	6					Zone	# 56			
Zone # 2	7					Zone	# 57			
Zone # 2	8					Zone	# 58			
Zone # 2	9					Zone	# 59			
Zone # 3	0					Zone	# 60			

5.0 System Worksheet (continued) Zone Location and Notes (continued)

Туре *	Zone/Output Function #	Partition & Location	Туре *	Zone/Output Function #	Partition & Location
Zone # 61			Zone # 95		
Zone # 62			Zone # 96		
Zone # 63			Zone # 97		
Zone # 64			Zone # 98		
Zone # 65			Zone # 99		
Zone # 66			Zone # 100		
Zone # 67			Zone # 101		
Zone # 68			Zone # 102		
Zone # 69			Zone # 103		
Zone # 70			Zone # 104		
Zone # 71			Zone # 105		
Zone # 72			Zone # 106		
Zone # 73			Zone # 107		
Zone # 74			Zone # 108		
Zone # 75			Zone # 109		
Zone # 76			Zone # 110		
Zone # 77			Zone # 111		
Zone # 78			Zone # 112		
Zone # 79			Zone # 113		
Zone # 80			Zone # 114		
Zone # 81			Zone # 115		
Zone # 82			Zone # 116		
Zone # 83			Zone # 117		
Zone # 84			Zone # 118		
Zone # 85			Zone # 119		
Zone # 86			Zone # 120		
Zone # 87			Zone # 121		
Zone # 88			Zone # 122		
Zone # 89			Zone # 123		
Zone # 90			Zone # 124		
Zone # 91			Zone # 125		
Zone # 92			Zone # 126		
Zone # 93			 Zone # 127		
Zone # 94			Zone # 128		

5.0 System Worksheet (continued)

Zone Location and Notes (continued)

Type *	Zone/Output Function #	Partition & Location	Туре *	Zone/Output Function #	Partition & Locatio
Zone # 129			Zone # 163		
Zone # 130			Zone # 164		
Zone # 131			Zone # 165		
Zone # 132			Zone # 166		
Zone # 133			Zone # 167		
Zone # 134			Zone # 168		
Zone # 135			Zone # 169		
Zone # 136			Zone # 170		
Zone # 137			Zone # 171		
Zone # 138			Zone # 172		
Zone # 139			Zone # 173		
Zone # 140			Zone # 174		
Zone # 141			Zone # 175		
Zone # 142			Zone # 176		
Zone # 143			Zone # 177		
Zone # 144			Zone # 178		
Zone # 145			Zone # 179		
Zone # 146			Zone # 180		
Zone # 147			Zone # 181		
Zone # 148			Zone # 182		
Zone # 149			Zone # 183		
Zone # 150			Zone # 184		
Zone # 151			Zone # 185		
Zone # 152			Zone # 186		
Zone # 153			Zone # 187		
Zone # 154			Zone # 188		
Zone # 155			Zone # 189		
Zone # 156			Zone # 190		
Zone # 157			Zone # 191		
Zone # 158			Zone # 192		
Zone # 159			Zone # 193		
Zone # 160			Zone # 194		
Zone # 161			Zone # 195		
Zone # 162			Zone # 196		

5.0 System Worksheet (continued)

Zone Location and Notes (continued)

Туре *	Zone/Output Function #	Partition & Location	Type *	Zone/Output Function #	Partition & Location
Zone # 197			Zone # 231		
Zone # 198			Zone # 232		
Zone # 199			Zone # 233		
Zone # 200			Zone # 234		
Zone # 201			Zone # 235		
Zone # 202			Zone # 236		
Zone # 203			Zone # 237		
Zone # 204			Zone # 238		
Zone # 205			Zone # 239		
Zone # 206			Zone # 240		
Zone # 207			Zone # 241		
Zone # 208			Zone # 242		
Zone # 209			Zone # 243		
Zone # 210			Zone # 244		
Zone # 211			Zone # 245		
Zone # 212			Zone # 246		
Zone # 213			Zone # 247		
Zone # 214			Zone # 248		
Zone # 215					
Zone # 216					
Zone # 217					
Zone # 218					
Zone # 219					
Zone # 220					
Zone # 221					
Zone # 222					
Zone # 223					
Zone # 224					
Zone # 225					
Zone # 226					
Zone # 227					
Zone # 228					
Zone # 229					
Zone # 230					

6.0 Glossary

6.1 General Control Programming

- Normal Arming [PIN] + [On]: If programmed, arms the entire system while allowing entry delays for entry/exit zones.
- Perimeter Instant Arming [PIN] + [No Entry] [Perimeter Only]: If programmed, arms only the perimeter of the system and does not allow entry delays for entry/exit zones.
- Perimeter Arming [PIN] + [Perimeter Only]: If programmed, arms only the perimeter of the system while allowing entry delays for entry/exit zones.
- **Custom Arming** [PIN] + [#] [4]: If programmed, allows custom arming of the system and bypasses the zone functions specified in data addresses 2725-2728.
- Maximum Security Arming [PIN] + [No Entry] [On]: If programmed, arms the entire system and does not allow an entry delay for entry/exit zones.

• General Authority by Partition

A general (level 2) authority can be programmed to have armonly authority; arm and bypass authority; arm and disarm authority; or arm, disarm, and bypass authority by partition. This is done at addresses 3421-3424.

- Arm-only access by partition allows someone with a General Authority to arm zones in a partition he can not disarm.
- This level can still be used to arm, disarm, and bypass zones in the other partitions that it has access to.
- **Closing Ring-Back**: If programmed, the keypad sounders and Bell will activate for 2 seconds after the system is armed and the closing report is successfully sent. This requires Closing Ring-Back and Closing Report to be programmed.
 - If a closing report is not programmed, the control will test for a dial tone when the system is armed. If the test passes, the system will arm normally. If the test fails, the system will arm, but will indicate a trouble condition.
 - The DS7447/DS7447E keypad will display "Communication Err" after [#] [8] [7] is entered.
- Siren on Comm. Fail for Silent Zone: If programmed, a silent zone will sound the alarm outputs if the zone is in an alarm condition and the system fails to communicate with the central station.
- Restore when Sounders Silence: If programmed, a zone sends a restoral report and is ready to activate again only after the burglary bell cut-off time expires or the bells are silenced.
 The zone can alarm multiple times per armed period.
- **Restore when Zone Restores**: If programmed, a zone sends a restoral report and is ready to activate again as soon as it physically restores.
 - This zone can alarm multiple times per armed period.
- Restore when System Disarms: If programmed, a zone sends a restoral report when the system is disarmed.
 - It can only alarm once per armed period.
- Allow Swinger Shunts: If programmed, a zone can only alarm or trouble up to three times per armed period. After the third alarm or trouble, the zone will be bypassed and a bypass report will be sent.
- **NOTE:** Swinger Shunts are **not** allowed on UL Certificated Installations.

6.2 Zone Function Programming

Zone Function

A Zone Function is the description of how a particular zone will behave (e.g. steady alarm output, bypassing allowed, alarm on short, trouble on open, perimeter instant).

- There are many possible zone functions. Up to 30 different zone functions are allowed per control.
- Zone functions may be custom made as needed.
- Each zone must be programmed as a specific zone function. Any number and combination of zones may be programmed as particular zone functions.
- Program zone functions at addresses 0001-0030.
- Invisible Alarms: This is a zone programmed not to have an alarm output or an alarm display at any keypad when activated. An alarm signal will be sent, but the DS7447/DS7447E keypad display will read "Not Ready" while this zone is violated.
 - Invisible Alarm zones are recommended for holdup alarms.
- **Silent Alarms**: This is a zone programmed to activate the visual display at the keypad, but not audible signals.
 - If this zone is also an entry zone, an entry tone will sound when this zone is activated.
- **Bypassing Allowed**: This is a zone programmed to allow bypassing (shunting). This is done using the bypass command or the force-arming sequence.
- Alarm on Short: This is a zone programmed to activate an alarm when its loop is shorted.
- Alarm on Open: This is a zone programmed to activate an alarm when its loop is opened.
- **Trouble on Open**: This is a zone programmed to activate a trouble when its loop is opened and the system is disarmed.
 - If the system is armed, this zone will activate an alarm if shorted or opened.
 - For 24-hour zones, regardless of the arming state of the panel, this always remains as a Trouble on Open.
- **Trouble on Short**: This is a zone programmed to activate a trouble when its loop is shorted and the system is disarmed.
 - If the system is armed, this zone will activate an alarm if shorted or opened.
 - For 24-hour zones, regardless of the arming state of the panel, this always remains as a Trouble on Short.
- Interior Delayed: This is a zone programmed to be ignored during the entry/exit delay period. If it is violated when the system is armed, it will activate a delay for the programmed entry delay time. The keypad pre-alert sounders will activate and the system may be disarmed during this delay period. If the system is not disarmed during this delay period, this zone will activate an alarm. This zone is bypassed by Perimeter Instant or Perimeter Armed.
- **Perimeter Instant**: This is a zone programmed to activate an alarm even during the entry/exit delay period.
- **24-Hour**: This is a zone programmed to activate when its loop is faulted, even if the system is disarmed.
- Entry/Exit Delay #1: This is a zone programmed to be ignored during the entry/exit delay period.
 - If it is violated while the system is armed, it will activate a delay for the amount of time programmed for entry delay time #1 (address 4028). The keypad pre-alert sounders will activate and the system may be disarmed during this delay period.
 - If the system is not disarmed during the entry period, this zone will activate an alarm.

- Entry/Exit Delay #2: This is a zone programmed to behave identical to the Entry/Exit Delay #1 zone function except that it uses entry delay time #2 (address 4029).
- **NOTE:** If both entry delays have been activated, the control will use the shorter entry delay.

• Entry/Exit Delay Cancel Zone Functions Entry/Exit Delay Cancel 1 and Entry/Exit Delay Cancel 2 Zone Functions cause the exit delay to expire as soon as the premises is vacated.

- If a zone is programmed as an Entry/Exit Delay Cancel zone, and it is activated during the exit delay, the exit delay will expire as soon as the zone has been restored.
- Entry/Exit Delay Cancel 1 follows entry delay 1.
- Entry/Exit Delay Cancel 2 follows entry delay 2.
- Interior Entry/Exit Follower: This is a zone programmed to be ignored during an entry/exit delay and then become an interior instant zone.
 - If this zone is violated while the system is armed and no entry/ exit zones have been violated, it will activate an alarm.
 - If this zone is violated after an entry/exit delay zone is violated, it will follow that entry/exit delay time.
 - This zone is bypassed by Perimeter Instant or Perimeter arming.
- Interior Home/Away: This is a zone programmed to become an interior instant zone if the system is armed and an entry/exit delay zone is violated during the exit delay time.
 - If the system is armed and an entry/exit delay zone is not violated, this zone will be bypassed.
 - This zone is bypassed by Perimeter Instant or Perimeter arming.
- Interior Instant: This is a zone programmed to activate an alarm even during the entry/exit delay periods.
 - It is bypassed by Perimeter Instant or Perimeter arming.
- **Day Monitor**: This is a zone programmed to be a perimeter instant zone when the system is armed.
 - When the system is disarmed, any violation of this zone will activate the keypad sounders which will sound continuously until a disarm command sequence is entered.
 - The alarm outputs for this zone will not activate and there will be no report for this zone when the system is disarmed.
- **Keyswitch Input**: This is a zone programmed to allow the system to be armed or disarmed using a Normally Open momentary keyswitch.
 - Outputs for keyswitch LEDs and sounders are available using the programmable outputs or the Octal relay outputs.
 - An output is needed for each LED and sounder.
 - A keyswitch will only control the partition that these zones are assigned to unless programmed as a master, then it will control all at once. See Program Address 0001, Data Digit 1.
 - Keyswitches and keypads may be used in the same partition, if desired.
- Fire Zone: This is a zone programmed to activate if the system is armed or disarmed.
 - It can be silenced (not reset) by entering a valid [PIN] + [Off].
 - The display will indicate a Fire Alarm for this zone on all keypads in every partition.
 - A fire reset command must be entered after silencing the alarm to re-enable this zone.
 - If this zone is programmed for trouble and the loop opens, the DS7447/DS7447E keypad will display "Fire Trouble" for this zone and the keypad sounders will beep once every ten

seconds.

- If the system is a combination fire and burglar alarm, the fire alarm has priority over the burglar alarm.
- Fire Zone with Verification: This zone is identical to a Fire Zone except that after the first alarm, it will perform a fire reset and then wait up to two minutes for a second alarm.
 - If a second alarm occurs within this two minute period, the system will indicate a fire alarm.
 - If there is no second alarm within this two minute period, the control panel will reset back to its normal condition.
- **NOTE:** Use of this control's alarm verification feature is not permitted for applications in the state of California.
- Water Flow Zone: This is a zone programmed to operate like a Fire Zone, but is specifically intended for water flow switches.
 - An optional retard timer can be programmed to compensate for changes in water pressure. If the timer is used, the water flow zone must be activated for the complete time period; an alarm will be initiated at the end of the timer period.
 - The maximum combined water flow delay of the control panel and the device must not exceed two minutes.
- **NOTE:** Any zone can be a water flow zone, but only zones 1 through 4 may be programmed as delayed water flow zones.
- **Supervisory Zone**: This is a zone programmed to accommodate shut-off valves.
 - It will indicate a supervisory condition at the keypads when activated.

6.3 Zone Programming

- Zone
 - A Zone is an input to the DS7400Xi Control/Communicator.
 - There are 8 hardwired zones on the main circuit board.
 - Additional zones may be added by using the DS7433 (8 zone expansion module), the DS7430 (multiplex loop module), and/ or other modules.
- **Single Zone Input**: This is an individual zone such as the onboard zones and multiplex contact zones.
- **Multiple Zone Input**: This is a zone connected to one of the 8-Input Modules (DS7432 or DS7433) or to a Dual Zone Module (DS7460).
 - The inputs are programmed separately (see the separate Programming Addresses Worksheet, P/N: 29802).
 - When using the Dual Zone Module (DS7460), loop A is always programmed as an odd numbered program address (ending in 1, 3, 5, 7, or 9). Loop B is the even numbered program address that follows loop A.
- **DS7465**: This is the input zone or the output relay on a DS7465. The odd numbered zone is programmed for the input zone function and the even numbered zone is programmed for the output function.
- **Multiplex Smoke:** This is a multiplexed input zone (zones 9-248) that is used with a MX280 series smoke detector. This zone must have a Zone Function of Fire Zone and Trouble on Open applied to the multiplex smoke zone.
- Multiplex Smoke with Low Temperature: This zone is used with the MX280 series smoke detectors with a low temperature alarm. Making this selection requires the programming of two zones as follows:

- **Smoke alarm**. This must be the odd numbered zone of the zone pair required for these devices. The zone must be programmed with a zone function that is set for Fire Zone and Trouble on Open.
- Low Temperature Alarm. This must be the even numbered zone of the zone pair required for these devices. This zone must be programmed with a zone function that is set as Supervisory and Trouble on Open.

6.4 Output Programming

- Latch on Any Zone Alarm: This is an output programmed to activate upon any zone alarm (including invisible zones) and will latch until the system has been disarmed.
 - If this output is programmed to respond only to a fire zone, it will remain latched until the fire reset command is performed.
- **ON during Entry Pre-Alert**: This is an output programmed to activate when an entry/exit zone is violated while the system is armed.
 - It will remain activated until the system is disarmed, or until the entry delay time has expired.
- ON for 10 seconds after [PIN] + [System Reset] is entered: This
 is an output programmed to activate for 10 seconds after the fire
 reset command is entered at the keypad or if a Fire Zone with
 Verification activates.
 - This output is intended to be used to power 4-wire smoke detectors or any other device that requires a power interruption to reset an alarm condition.
- **NOTE:** When Programmable Output 2 is programmed this way, it will normally supply auxiliary power and will turn OFF for 10 seconds when the fire reset command is entered.
- **ON when System is Armed**: This is an output programmed to activate when the system is armed.
 - It will remain activated until the system is disarmed.
- **Ground Start**: This is an output programmed to activate for 3 seconds when the phone line is seized. It is intended for use with ground start phone systems that require a momentary short to ground to obtain a dial tone.
 - Connect a separate 12 VDC, DPDT relay.
 - Connect both relay contact commons to ground, and connect the Normally Open of each contact to terminal positions 13 and 16 (one to terminal 13, the other to 16) of the DS7400Xi.
 - This output follows all partitions regardless of how data digit 2 of the output programming address is programmed.
 - Not intended for UL Listed systems. Not for use with phone line monitors.
- System Status (ready to arm): This is an output programmed to follow the Status LED of the keypad.
 - It will activate when the system is ready to arm with no zones violated.
- **Zone Alarm**: This is an output programmed to activate when a zone is in an alarm condition.
 - It will remain activated until the system is disarmed or the bell cut-off time expires.
 - This output is intended to activate alarm bells and sirens.
 - This will not activate from Silent or Invisible Zones.
- Zone Alarm Delayed by 20 sec.: This is an output programmed to wait 20 seconds after a zone enters an alarm condition to activate.
 - It will remain activated until the system is disarmed or the bell

cut-off time expires.

 This output is intended to activate alarm bells and sirens, but provides a delay to allow the user to silence the system before it activates.

Output Functions

Output Functions can be programmed to follow system events or to follow one or two specific zones in a "cross-matrix" fashion (see Input/Output Cross-Matrixing).

- These Output Functions can be programmed to control Octal Relay outputs or Multiplex Bus outputs.
- Output Functions are programmed in addresses 2772-2843.

Input/Output Cross Matrixing

Input/Output Cross Matrixing allows Output Functions to follow the status of specific input zones (zones 1 through 248 only).

- Outputs can be programmed to follow any combination of one or two zones, open or closed, with the system armed or disarmed.
- If programmed to latch, the output will latch until a valid PIN is entered at the keypad.
- Keypad Sounder Output: This is an output programmed to follow the keypad sounder.
 - It activates during the entry pre-alert and during any day monitor alarm. It does not follow momentary keypad beeps such as keystrokes, chimes, etc.
- Access Output: This is an output programmed to activate for 10 seconds when an access control PIN is entered at the keypad.
 Not III Listed for Access Control (III 294)
 - Not UL Listed for Access Control (UL294).

• **Panic/Duress Output**: All outputs, including the three on-board outputs, the Octal Relays, and the Output Functions, support a Panic/Duress function. This output will follow Duress activations, Keypad Emergency Keys B and C, and Invisible and Silent Zone alarms. It will only be reset by a user acknowledgement and will not reset after the burglary bell time-out occurs. Duress activations will latch until acknowledged by a user.

• Multiplex Bus Outputs

The DS7400Xi supports up to 60 DS7465 Input/Output Modules.

- These modules are connected to the multiplex bus and provide one input loop and one Form "C" output relay.
- The input loop operates the same as all other multiplex inputs.
- The output loop can be programmed to follow Output Functions.
- Multiplex Bus outputs can be bypassed using the bypass function. If an output zone is bypassed while it is ON, it will turn OFF. The bypass will not be removed when the system is armed and then disarmed; it must be cancelled by entering the bypass command again or by cancelling all bypasses.
- **NOTE:** DS7465 Module outputs will not pulse, even if programmed to do so.
- Octal Relay Modules (DS7488)
 - The DS7400Xi can support two Octal Relay Modules.
 - Each relay can be programmed to follow system-wide events or Output Functions as described above.
- Solid State Output Modules (DS7489)
 - The DS7400Xi can support two Solid State Output Modules.
 - Each output can be programmed to follow system-wide events or Output Functions as described above.

6.5 Partition Control Programming

• **Partition Control Programming**: Up to eight partitions may be used. They are assigned (program address 3420) in order.

- For example: When using only one partition, it is partition one. When using three partitions, they are partitions one, two, and three.
- Partitioning allows the system to act as up to 8 different systems.
- Zones, keypads, outputs, and other items may be assigned to particular partitions.
- Access to partitions may be through each partition's keypad or through a Master keypad (see the User's Guide P/N: 43851 for more details).
- **Common Area**: Partition 1 can be programmed as a common area, that is, common to other partitions. This allows it to be used in an installation with one common entry area such as a foyer or vestibule.
 - When Partition 1 is programmed as a common area, it will only arm when all the partitions it is common to are armed.
 - The common area will disarm when any of the partitions it is common to are disarmed only if the user has access to the common area.
 - When using a common area, a Master keypad should be used and assigned to the common area (see keypad assignment programming).

6.6 Keypad Assignment Programming

- Keypad Assignment: The keypad type and the partition it is assigned to must be programmed.
 - Each program address (3131-3138) programs the keypad type for two keypads. For example: for address 3131, data digit 1 is for keypad 1, data digit 2 is for keypad 2.
 - Each program address (3139-3146) programs the partition assignment for two keypads. For example: for address 3139, data digit 1is for the partition assignment of keypad 1, data digit 2 is for the partition assignment of keypad 2.
 - Users must have access to the partition the keypad is assigned to in order to use the keypad.
- **Master Keypad Programming** : A Master keypad can be used to access all the partitions.
 - It will display the arm/disarm status of all the partitions and can be used to individually control each partition (see section 7.6).
 - A Master keypad can be assigned to any of the partitions.
 - Any number of the 15 allowable keypads can be a Master keypad.
 - When using the common area, it is suggested that a Master keypad be used and that it is assigned to the common area.

6.7 Emergency Key Programming

- **NOTE:** Do not label these keys if they are unprogrammed. Only the "A" key may be programmed and labeled as the Fire key. These keys are not intended to substitute for Listed manual pull boxes.
- Fire Key: The emergency key (key A) at the bottom left of the keypad entry area is the Fire Key. If programmed, the key will activate a fire alarm when pressed for 2 seconds.
 - It may be programmed for a steady or pulsed alarm.
- **NOTE:** The Fire Key will generate the fire alarm sounders in the partition that activated the Fire Key. Any other partitions in use will only have their keypad sounders activated. All keypad displays will be the same.
- **Special Emergency Key**: The emergency key (key B) at the bottom center of the keypad entry area is the Special Emergency

Key.

- If programmed, the key will activate a supplementary or an auxiliary type alarm when pressed for 2 seconds.
- It may be programmed for a silent, steady, or pulsed alarm.
- **Panic Key**: The emergency key (key C) at the bottom right of the keypad entry area is the Panic Key.
 - If programmed, the key will activate a panic alarm when pressed for 2 seconds; nothing will display at the keypad to indicate an alarm.
- It may be programmed for a silent, steady, or pulsed alarm.
- **NOTE:** The Special Emergency Key and the Panic Key will generate the alarm sounders only in the partition of the keypad that activated that Key.

6.8 Custom Arming Programming

- **Custom Arming [PIN] + [#] [4]**: If programmed, the [PIN] + [#] + [4] command sequence may be used to custom arm the system by arming only certain zone functions.
 - For example: All interior zones plus some perimeter zones may be bypassed while leaving some of the perimeter armed.

6.9 Force Arming

- Force Arming: If programmed, allows violated zones to be force armed. When force arming, the user must enter the usual arming command followed by the [Bypass] key. This automatically bypasses zones that are violated and programmed as bypassable.
 - Fire zones, supervisory zones, keyswitch zones, waterflow zones, and non-bypassable zones can not be force armed.
 - Not available in UL Listed systems.
 - See Program Address 2732.

6.10 Ground Fault Detect Programming

- **Ground Fault**: If programmed, this function will allow the system to detect ground faults. This function is required for fire panels and will be forced on when the panel is in the commercial fire mode.
 - See Program Address 2732.

6.11 Commercial Fire Mode Programming

- **NOTE:** In a system that includes both fire alarm and burglar alarm devices, the system must produce distinct sounds for fire and burglar alarm conditions either by using different indicating appliances or by using distinct cadences for the same appliance.
- **Commercial Fire Mode**: When in Commercial Fire Mode, the control panel will perform some functions (e.g. communications) differently to conform with commercial fire regulations.
 - See Commercial Fire Mode Programming, program address 2733.
- Water Flow Zone Delay: This is the amount of time a water flow zone must be violated before the control panel will initiate an alarm.
 - The delay is necessary to accommodate normal changes in water pressure.
 - If the water flow initiating device incorporates its own time delay, do not program the control panel unit to exceed 120 seconds combined time delay.

- **Pulsing Fire Zone**: This is a zone programmed to output a pulse for a fire alarm in the normal manner (one second ON, one second OFF).
- **California March Time**: This is a zone programmed to output a pulse for a fire alarm in the California Time cadence (ten 1/2 second pulses, followed by one second of quiet time).
- **Temporal**: This is a zone programmed to output a pulse for a fire alarm in the Temporal cadence (three 1/2 second pulses, followed by one second of quiet time).
- **Single Keypad Use**: The keypad should be used on the keypad bus and be mounted to the front of the control enclosure OR if within the same room as the control equipment with the wire run in conduit (or equivalently protected against mechanical injury) within 20 ft. (6.1 m) of the control equipment.

- This keypad should be assigned as address 1.

- **Multiple Keypad Use**: <u>One keypad only</u> must be used on the option bus, at any address from 11 14, and must meet the following requirements:
 - The keypad must be mounted to the front of the control enclosure OR mounted within the same room as the control equipment and the wire is run in conduit (or equivalently protected against mechanical injury) within 20 ft. (6.1 m) of the control equipment.
 - All other keypads should be connected to the keypad bus and may be placed as needed (within the noted wiring limitations in the installation manual).
 - One keypad must be assigned as address 1.

6.12 Open/Close Report Control Programming

- **Open and Close Reports**: If programmed, these reports are sent when the system is armed or disarmed. They may be sent independently for the opening and closing of each partition, or the first partition to open and the last partition to close may send the reports.
- Send Trouble at Close for Bypassed Zones: If programmed, a trouble report will be sent for each zone bypassed when the system is armed.
- Alternate between both Phone Numbers: If programmed, open and close reports will be sent to phone number one first. If phone number one does not pick-up, the control panel will alternate to phone number two. If phone number two does not pick-up, the control panel will alternate back to phone number one. It will alternate between both phone numbers until successful.

6.13 Report Programming

- **Reports**: For pulse formats, reports are programmed by entering data in the reporting and extended digits. The report will send the data programmed for each event. For SIA and Contact ID, the report formats are fixed and may be activated by placing a 1 in the reporting digit.
 - To disable a report, enter a 0 in the reporting digit.
 - To send the Man No. along with Open and Close reports, program an "F" (enter [*] [5] at the keypad) in the extended digit.
- Keypad Fire Alarm: This report is sent when a fire alarm has been activated by the "A" emergency key.
- Keypad Fire Restoral: This report is sent when a keypad fire alarm has been restored using the [System Reset] command.

- Keypad Emergency Alarm: This report is sent when an emergency alarm has been activated using the "B" emergency key.
- Keypad Panic: This report is sent when an emergency alarm has been activated using the "C" emergency key.
- **Keypad Tamper:** For keypads fitted with a wall tamper switch, this report is sent when the keypad is removed from the wall.
- **Keypad Tamper Restoral:** For keypads fitted with a wall tamper switch, this report is sent when the keypad is properly replaced on the wall after experiencing a tamper condition.
- **Zone Function Alarm**: An alarm report is sent when a zone alarm occurs. Alarm reports are enabled by zone function. Program this report for any zone functions you wish to send an alarm report about. For local zones (no reports), do not program an alarm report. The zone number will automatically be sent for this report in SIA or Contact ID format.
- **Zone Function Restoral**: This report is sent when the zone alarm and trouble conditions are cleared. The zone number will automatically be sent for this report in SIA or Contact ID format.
- **Zone Function Trouble**: This report is sent when a zone trouble condition occurs. This can be an open circuit, if the zone is programmed for "trouble on open", a multiplex tamper switch being activated, or a multiplex zone not communicating with the control panel. The zone number will automatically be sent for this report in SIA or Contact ID format.
- **Zone Function Bypass:** This report is sent when a zone is bypassed. (Note: Fire zones can never be bypassed.) Zone bypass reports for non-24 hour zones are sent with the closing report. Bypass reports for 24 hour zones are sent when the zone is bypassed. If a zone is force armed, the bypass report is sent with the partial close report. If a 24 hour or non-24 hour zone is custom armed, the bypass report is sent with the partial close report.
- Zone Function Bypass Restoral: This report is sent when the zone bypass is cleared. For non-24 hour zones the bypass restoral is sent with the open report. Bypass restoral reports for 24 hour zones are sent when the zone is manually restored. The bypass restoral report for a zone that was force armed is sent when the zone is restored. If a 24 hour or non-24 hour zone was custom armed, the bypass restoral is sent with the open report.
- **Open**: This report is sent when the system has been disarmed. In SIA or Contact ID formats, the user number for the person who disarmed the system will be sent with this report. To send the user number along with an Open report in other formats, program the extended digit of the report as *5. In Contact ID format, the partition number will also be sent along with this report. The Open report will only be sent if a Close report was sent previously.
- **Close**: This report is sent when the system has been armed. In SIA or Contact ID formats, the user number for the person who armed the system will be sent with this report. To send the user number along with a Close report in other formats, program the extended digit of the report as *5. In Contact ID format, the partition number will also be sent along with this report.
- **Duress**: This report is sent when the system is disarmed using a duress code. The user number is not sent with this report.
- **Partial Close**: This report is sent when the system is armed partially, or force armed.
- First Open After Alarm: This report is sent when the system is disarmed after an alarm has occurred.

- Low Battery: This report is sent when a low battery condition occurs.
- **Battery Restoral**: This report is sent when a low battery condition restores.
- **AC Fail**: This report is sent when an AC failure condition occurs. This report may be delayed in address 4034.
- A/C Failure Report Delay

The A/C power loss report can be programmed to delay for up to 254 minutes (see address 4034). (The same delay would also apply to the A/C restoral report.)

- If another report is sent during this delay period, the A/C fail report will be sent along with this report.
- If the A/C power restores during this delay period, the A/C loss report will not be sent.
- Programming address 4034 as FF causes the report to be sent at a random interval of at least 15 minutes, but no more than 2 hours after the A/C failure occurs.
- AC Restoral: This report is sent when an AC failure condition restores.
- **Communicator Test/System Normal**: This report is sent at the 24-hour check-in time if there is not a control trouble, an active fire alarm that has not been acknowledged, a fire trouble, or a supervisory condition. Note: To send a Communicator Test even if one of these conditions exists, program the Communicator Test/System Off Normal.
- **Remote Program Successful**: This report is sent after a Remote Program session, if the session was terminated properly.
- **Remote Program Unsuccessful**: This report is sent after a Remote Program session, if some error has occurred or the session did not terminate properly.
- Local Program Successful: This report is sent when local programmer's mode is exited and there is no error associated with the programming.
- Local Program Unsuccessful: This report is sent when local programmer's mode is exited and there has been some error associated with the programming.
- **System Trouble**: This report is sent when a control trouble condition occurs.
- **System Trouble Restoral**: This report is sent when all system trouble conditions restore.
- **Communicator Test/System Off Normal**: This report is sent at the 24-hour check-in time if there is a control trouble, an active fire alarm that has not been acknowledged, a fire trouble, or a supervisory condition.
- Exit Error: This report is sent if an exit error occurs. An exit error occurs when an entry/exit zone is still violated at the end of the exit delay. If this happens, the entry delay will begin and any output programmed to activate an alarm will energize. If the system is not disarmed before the entry delay expires, an alarm report for the effected zone will be sent and the Exit Error report will be sent. If this report is not programmed, the control will not sound the exit error warning.
- **Recent Closing**: This report is sent, along with any alarm reports, when there is an alarm within the first five minutes after the system has been armed.

- System Walk Test: This report is sent when a system test has been started ([#] [8] [1] key sequence). Zone reports are sent during a system test.
- System Walk Test Restoral: This report is sent when the system test has been completed or has timed-out.
- Fire Walk Test: This report is sent when a Fire Walk Test has been started ([#] [9] [1] key sequence). Zone reports are not sent during a Fire Walk Test.
- **Fire Walk Test Restoral**: This report is sent when the Fire Walk Test has been completed or has timed-out.
- Mux. Smoke Low Temperature Report: This supervisory report is sent when a MX280 Series smoke detector with a low temperature feature detects a temperature of 45°F (7.5°C) or less for a period of 30 minutes or more.
- Mux. Smoke Low Temperature Restoral: This report is sent when a MX280 Series smoke detector with a low temperature alarm determines that the temperature has risen above 45°F (7.5°C).
- Dirty Chamber Report: This report is sent when a MX280 Series smoke detector fails to pass the "Chamber Check[®]" sensitivity test.
- **Dirty Chamber Restoral**: This report is sent when a MX280 Series smoke detector has been returned to normal operation after service.

6.14 Phone Number General Control Programming

- Enable Remote Programmer Callback: If programmed, when the remote programmer tries to initiate a session with the panel, the panel will hang up and call the remote programmer phone number.
 - Ensures the correct remote programmer is initiating the call.
- **Dial Pulse on all Phone Numbers**: If programmed, the panel will dial phone number 1, 2, and the remote programmer phone number 3 using the pulse format.
- **Dial Tone on all Phone Numbers**: If programmed, the panel will dial phone number 1, 2, and the remote programmer phone number 3 using the tone format.

6.15 Phone Answering Programming

- Answering Machine Bypass: This feature allows the panel to answer incoming calls when answering machines are used. If the line rings, stops ringing, then rings again within one minute, the panel will seize the phone line on the first ring.
- Phone Answering Programming: The panel can be programmed to answer the phone after a selected number of rings for remote programming access. It can also be programmed to answer the phone after a different number of rings when in armed or disarmed states.
 - This can be used to call the panel location and determine its arming state.

6.16 FCC Compliance Notice

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

6.17 FCC Phone Connection Notice To Users

This control complies with Part 68 of the FCC rules.

On the inside of the enclosure is a label that contains, among other information, the FCC Registration Number and the Ringer Equivalence Number (REN) for this equipment. You must, upon request, provide this information to your local telephone company.

The REN is useful to determine the quantity of devices that may be connected to your telephone line and still have all of those devices ring when your telephone number is called. In most, but not all areas, the sum of the REN's of all devices connected to one line should not exceed five (5.0). To be certain of the number of devices that you may connect to your line, you may want to contact your local telephone company to determine the maximum REN for your local calling area.

This equipment may not be used on coin service provided by the telephone company. This control should not be connected to party lines.

Should this equipment cause harm to the telephone network, the telephone company may discontinue your service temporarily. If possible, they will notify you in advance. But if advanced notice isn't practical, you will be notified as soon as possible. You will be informed of your right to file a complaint with the FCC. The telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the proper functioning of your equipment.

If they do, you will be notified in advance to give you an opportunity to maintain uninterrupted telephone service.

If you experience trouble with this equipment, please contact the manufacturer for information on obtaining service or repairs.

The telephone company may ask that you disconnect this equipment from the network until the problem has been corrected or until you are sure that the equipment is not malfunctioning. The repairs to this equipment must be made by the manufacturer and not the user.

To guard against accidental disconnection, there is ample room to mount the Telco jack to the inside of the Control cabinet.

The operation of this Control may also be affected if events such as accidents or acts of God cause an interruption in telephone service.

6.18 Canadian Dept. of Communications

General Installation Requirements: Notice: The Canadian Department of Communications label identifies certified equipment. This certification means that the equipment meets certain telecommunications network, protective, operational, and safety requirements. The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. In some cases, the company's inside wiring associated with a single line individual service may be extended by means of a certified connector assembly (telephone extension cord). The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure, for their own protection, that the electrical ground connections of the power utility, telephone lines, and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.



Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

Terminal Requirements: The Load Number (LN) assigned to each terminal device denotes the percentage of the total load to be connected to a telephone loop which is used by the device, to prevent overloading. The termination on a loop may consist of any combination of devices subject only to the requirement that the total of the Load Numbers of all the devices does not exceed 100. The Load Number of the DS7400Xi is 2.

RFI Requirements: This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations. [Cet appareil numerique de la classe A respecte toutes les exigences du Reglement sur le material broilleur du Canada.]

6.19 For Installations in New Zealand

Two-wire Connection:

The operation of this equipment on the same line as telephones or other equipment with audible warning devices or automatic ring detectors will give rise to bell tinkle or noise and may cause false tripping of the ring detector. Should such problems occur, the user is not to contact Telecom Faults Service.

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7.0 Operating Guide

For additional information on operating this system, consult the DS7400Xi (Ver. 4+) User's Guide (P/N: 43851) and the front cover of this Reference Guide.

7.1 Emergency Procedures

7.1.1 Identifying Alarm Sounds

Your alarm system may be programmed for a steady alarm sound or a pulsed alarm sound. It is important to learn the difference between a fire alarm sound and an intrusion alarm sound before you are confronted with an actual emergency.

7.1.2 Silencing Alarms

All alarms can be silenced with any PIN that has disarm privileges. Entering your [PIN]+ [Off] will silence the alarm and turn off (disarm) the control.

7.1.3 A Cautionary Note

How you respond to an alarm will depend, mostly, on the type and time of the alarm. You should seek the advice of your installing company as they install your system, not later (e.g. after an alarm) to develop a response plan.

7.1.4 Use Common Sense

Above all else, common sense should prevail. If there is any threat or hint of danger to yourself or others on the premises, such as in the event of a fire alarm, everyone should be instructed to leave the premises immediately. Do not enter the premises unless accompanied by the appropriate Emergency Services' personnel, or after they have given the OK to enter.

7.1.5 Caution When Entering a Building

If the bells and sirens are on and/or the red Armed Light is flashing with the DS7447/DS7447E display reading "Zone Alarm" or the DS7445/DS7445i having its zone LEDs flashing, then the keypad is signaling that an alarm has occurred. The keypad will also issue a pulsed tone during the entry delay instead of the usual steady tone.

If the alarm has not been previously investigated, do not enter the building unless accompanied by the appropriate Emergency Services' personnel.

7.1.6 Fire Alarms

Fire Alarms are silenced using the same procedure as intrusion alarms: a [PIN] (with disarm privileges) plus the [Off] key.

The Fire Alarm system is not reset until alarms at smoke detectors are cleared by using the [System Reset] command. The Fire Alarm system will not be functional until this procedure has been followed. See the "Fire Reset" section, 7.2.

7.3 Emergency Keypad Alarms

The Emergency Alarm Keys [A], [B], and [C] may generate Fire, Special Emergency, and Panic Alarms if programmed by the installer.

Ask your installing company to explain the function of these keys.

7.2 Fire Reset/Fire Trouble

7.2.1 Fire Reset

During a fire alarm, exit the premises immediately. When you have determined there is no fire, you may silence the bells/sirens before you initiate the [System Reset] command: [PIN] + [System Reset]. Before the [System Reset] command is used, determine which smoke detector has alarmed so the monitoring company may verify its operation.

- **NOTE:** To use the System Reset command sequence, your PIN must have disarm privileges. The System Reset command will perform a fire reset, a battery test, and will clear all system troubles.
- **NOTE:** If the System Reset command has not been performed after 24 hours of the Fire Alarm, the keypad will sound and it will display "Fire Alarm Not Reset." If the sounders have been silenced and the system has been reset properly, this warning will not occur.

7.2.2 Fire Trouble

A Fire Trouble message with a zone number signifies a problem with the fire system, such as a break in the wiring that monitors smoke detectors. A Fire Trouble message with no zone number indicates a ground fault if the unit is in the commercial fire mode. A Fire Trouble will be indicated by a short beep from the keypad sounders every 10 seconds. The DS7447/DS7447E will display "Fire Trouble" followed by the zones in a trouble condition. The DS7445/DS7445i will turn the Fire and Trouble Lights on steady and will light the corresponding zone LEDs.

Notify your installing company immediately if the Fire Trouble message is displayed.

The Fire Trouble beep can be silenced with any [PIN] plus the [Off] key. After problems have been remedied, a [PIN] plus the [Off] key should again be entered to clear the "Fire Trouble" display.

7.2.3 Dirty Smoke

A Dirty Smoke display, followed by a zone number and accompanied by a beep every ten seconds indicates that the smoke detector for that zone requires cleaning or replacement. The smoke detector will also give a Dirty indication by flashing its LED once per second. The Dirty Smoke beep can be silenced by any [PIN] plus the [Off] key.

Notify your installing company immediately if the Dirty Smoke message is displayed.



When using the Emergency Keys, they must be pressed for two seconds to generate an alarm.

NOTE: If the Emergency Alarm Keys are to be used, they should be labeled to signify their functions. The A key should be labeled as the Fire key. This is the only key that may be designated as the Fire key. The B key should be labeled as the Special Emergency key.

The C key should be labeled as the Panic key.

Use the Disarming Command Sequence to cancel or silence these alarms.

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7.4 Fire Safety



No fire detection device or system should be considered 100% foolproof.



This fire alarm system can provide early warning of a developing fire. Such a system, however, does not ensure protection against property damage or loss of life resulting from a fire. Any fire alarm system may fail to warn for any number of reasons (e.g. smoke not reaching a detector that is behind a closed door).

When considering detectors for residential applications, refer to NFPA Standard 72, "The National Fire Alarm Code." This standard is available at a nominal cost from: The National Fire Protection Association, Batterymarch Park, Quincy, MA 02269.

7.4.1 If Installed in Family Residences

Adherence to the NFPA Standard 72 can lead to reasonable fire safety when the following items are practiced:

- Minimize hazards: Avoid the three traditional fire killers: smoking in bed, leaving children home alone, and cleaning with flammable liquids.
- Providing a fire warning system: Most fire deaths occur in the home, the majority, during sleeping hours. The minimum level of protection requires smoke detectors to be installed outside of each separate sleeping area and on each additional story of the dwelling.

For added early warning protection, it is recommended that detectors be installed in all separated areas including the basement, bedrooms, dining room, utility room, furnace room, and hallways.

7.4.2 Having and Practicing an Escape Plan

A fire warning may be wasted unless the family has planned in advance for a rapid and safe exit from the building.

 Draw a floor plan of the entire house showing two exits from each bedroom and two from the house. Since stairwells and hallways may be blocked during a fire, the plan should provide exits from bedroom windows.

Make copies of the plan and practice it with all family members.

- Pre-arrange a meeting place outside and away from the residence. Once out of the building, all occupants should immediately go to the pre-selected location to be accounted for.
- Provide a barricade between family members and fire, smoke, and toxic gases (e.g. close all bedroom doors before retiring).
- Children should be instructed on opening their bedroom windows and exiting safely from the building. If exiting is not possible, they should be taught to stay at the open window and shout for help until it arrives.
- In the event of a fire alarm after retiring, wake the children by shouting to them from behind your closed door. Tell them to keep their bedroom doors closed.
- If the top of your bedroom door is uncomfortably hot, do not open it. There is most likely fire, intolerable heat, or smoke on the other side. Shout to all family members to keep their bedroom doors closed and to exit the building via alternate routes.
- If the top of the door is not uncomfortably hot, brace the bottom of the door with your foot, and the top with one hand, then open the door about one inch. Be prepared to slam the door shut if there is any pressure against the door or if any hot air rushes in.
- If there is no evidence of excessive heat or pressure, leave the room and close the door behind you. Shout appropriate instructions to all family members and immediately leave the building via the pre-planned routes. If heavy smoke is present, drop to your hands and knees, or crawl to remain below the smoke level.

7.4.3 Installation Considerations

Proper location of detection devices is one of the most critical factors in a fire alarm system.

The following are some general considerations:



- Smoke detectors should not be installed in "dead air" spaces or close to ventilating or air conditioning outlets because smoke may be circulated away from the detector. Locations near air inlets should be favored.
- Avoid areas subject to normal smoke concentrations such as kitchens, garages, or near fireplaces.
- Do not install smoke detectors where normal area temperatures are above 100° F (38° C) or below 32° F (0° C).
- Areas of high humidity and dust concentrations should be avoided.
- The edge of ceiling mounted detectors should be no closer than 4 inches (10 cm) from any wall.
- Place the top edge of wall mounted detectors between 4 and 12 inches (10 to 30 cm) from the ceiling.

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7.5 Personal Identification Numbers

7.5.1 General Information

A PIN (Personal Identification Number) is the 4- or 6-digit code users must enter at the keypad to gain access to the system. Your system has the capability to assign up to 200 PINs, each four or six digits long. A PIN may be assigned to each User Number.

PINs should never be programmed with common sequences such as 1 2 3 4, 1 1 1 1, or 2 4 6 8 because they are easily violated.

A User Number is the number that identifies each person using the system. There are 200 possible User Numbers available for use (001 through 200).

Each User Number can have only one PIN assigned to it. Attempting to assign the same PIN to multiple User Numbers will result in the three-beep error tone, and the entry will not be made.

User Number 001 is designated as a Master code. It can be used to add, delete, or change other PINs. It will always have access to all partitions regardless of how it is programmed.

User Number 001 is shipped from the factory with the PIN of 1 2 3 4. If your system has been reprogrammed for 6-digit PINs, the PIN for User Number 001 will be 123456. This PIN should be changed to one of your personal preference and must be programmed as a Master code.

A Master code is one of the available authority levels which can be assigned to a user to determine which functions that user will be able to perform. The available authority levels are:

- 0 = **Master:** Can enter all commands, add or change PINs in assigned partitions, change the time and date, bypass, arm, disarm, perform system tests, system reset and view history. User Number 001 must have the Master authority level. Any or all PINs can behave as a Master code.
- 1 = Unlimited: Can enter all commands, bypass, arm, disarm, system reset and perform system tests. It can not change PINs.
- 2 = General: Can bypass, arm and disarm. It can not change PINs, system reset, enter [#] [7] or any of the [#] [8] functions.
- 3 = **Arm Only:** Can arm the system with [PIN] + [ON] arming sequence only. It can not perform any other functions, including disarming.
- 4 = **Temporary:** Valid only for a specified time (the PIN will disappear upon expiration date). It can arm and disarm the system, but can not perform any other functions. If this is done from a Master keypad, you must be in Single Partition Mode. If access is assigned to more than one partition, you must enter a Temporary PIN expiration date for all assigned partitions (see Changing the Expiration Date for Temporary PINs).
- 5 = **Duress:** When the system is disarmed using the duress code, a silent report is sent to your monitoring service. The Duress code is intended to be used when the user is forced to disarm the system.

6 = Access Code: When a PIN with an Access Code is entered, any output programmed for Access Output (i.e. door strikes) will pulse on for 10 seconds (works when the system is armed or disarmed).

7.5.2 Programming PINs

PINs can only be added, changed, or removed in Master Programming Mode, so they are **not** programmable from an RF (wireless) keypad.

You should write down your entries before you enter the Master Code Programming Mode and have them with you as you begin programming. Make your entries promptly. If a long delay occurs in your entries, the 3-beep error tone occurs and exits you from the programming mode.

It is recommended that all PIN programming procedures be performed at a DS7447/DS7447E keypad since this keypad will provided visual prompts throughout the programming sequence. **No visual clues will be given from a D7445/DS7445i keypad.** When the programming sequence is successfully completed, both the DS7447/DS7447E and DS7445/DS7445i keypads will signal the seccessful completion with a long beep.

To add or change a PIN:

- Enter Master Programming Mode (press [Master PIN] + [#] [0]).
- Enter a 0 for PIN Setup programming (press [0]).
- Enter the User Number (enter a 3-digit number from 001 to 200).
- Enter the Authority Level (enter a number from 0 to 6).
- Enter the Area(s) (Partitions) to which this user will have access (press [1], [2], [3], [4], [5], [6], [7], and/or [8] followed by [#]).
- Enter the PIN (enter any 4- or 6-digit number; do not press [#]).
- Enter the PIN again followed by [#].

To set the expiration date for an existing Temporary PIN:

- Enter Master Programming Mode (press [Master PIN] + [#] [0]).
 Enter a 2 for Data of Code Expiration Setup programming (press
- Enter a 3 for Date of Code Expiration Setup programming (press [3]).
- Enter the Expiration Month (press [0] [1] for January through [1] [2] for December).
- Enter the Expiration Day (press [0] [1] through [3] [1]). The Temporary PIN will expire at Midnight on the day selected.
- Enter the Year (enter the last two digits of the year followed by [#]).
- **NOTE:** Entering the command sequence [Master Code] [#] [0] [3] [#] will cause the DS7447/DS7447E keypad to read back the temporary code expiration date.

To remove a PIN:

- Enter Master Programming Mode (press [Master PIN] + [#] [0]).
- Enter a 0 for PIN Setup programming (press [0]).
- Enter the User number of the PIN to be cancelled, followed by [#] (enter a 3-digit number from 001 to 200, then press [#]).

NOTE: User Number 001 can not be disabled in this manner.

7.6 The Master Keypad

7.6.1 General Information

Your system may include a Master keypad. A Master keypad is a DS7447/DS7447E keypad programmed to give a user access to all the partitions the user has access to, not just the partition in which the Master keypad is located. This is different from a Standard keypad in that Standard keypads only give access to the single partition in which they are located. Commands entered at the Master keypad will affect all the partitions to which the user has access. If this is not desirable, the Master keypad can also be used to control each partition individually; this is called Single Partition Mode. Single Partition Mode allows a user to control any or all of the partitions the user has access to on an individual (one-by-one) basis (see section 7.6.3 for more information on Single Partition Mode).

NOTE: In order to use the Master keypad, your PIN must be assigned to the partition in which the Master keypad is located.

7.6.2 Master Keypad Displays

Master keypad displays will differ slightly from Standard keypads. The Master keypad display will scroll the Status of each partition, followed by the partition number. For example, if all partitions are armed, the Master keypad will scroll through the following displays:

Armed Armed Armed Armed Armed Armed Armed Armed Armed area 1 area 2 area 3 area 4 area 5 area 6 area 7 area 8 If only partitions 1, 2, 3, 4, 6, and 8 are armed, the Master keypad will scroll through the following displays:

Armed Armed Armed Armed Ready to Arm Armed Ready to Arm Armed area 1 area 2 area 3 area 4 area 5 area 6 area 7 area 8

Displays for partitions that are Not Ready will display in the same manner.

The chart at the bottom of this page will help you understand what each LED function of the Master keypad represents.

7.6.3 Single Partition Mode

Single Partition Mode is used to control partitions on a "one at a time/one by one" basis from the Master keypad.

To enter the Single Partition Mode, enter your [PIN], then press the [#] key twice. This will call up the first partition you have access to. Enter the command sequence you wish for this partition. You do not need to use your PIN again. To move on to the next partition you have access to, press the [#] key twice.

To exit the Single Partition Mode, hold the [*] key down for 2 seconds. The system will also automatically drop out of Single Partition Mode after 40 seconds without a keypad entry.

Example of accessing Single Partition Mode

• Enter your [PIN], followed by the [#] key twice: [1] [2] [3] [4] [#] [#].

- The first partition you have access to will be displayed: "Ready to Arm. Cafeteria."
- Complete the command sequence (in this case arming) you wish for this partition: [#] [On].
- Move to the next partition you have access to by pressing the [#] key twice: [#] [#].
- The next partition you have access to will be displayed: "Ready to Arm. Office."
- Complete the command sequence you wish for this partition.
- After you have completed all the command sequences for the partitions you have access to, exit Single Partition Mode by pressing the [*] key for two seconds.

7.6.4 Arming from the Master Keypad

To arm all the Partitions to which you have access:

• [PIN] + any Arming Command Sequence. This will arm all the partitions to which you have access even if they are already armed.

To arm only some of the Partitions to which you have access:

- [PIN] + [#] + [#]. This puts you into Single Partition Mode.
- The first partition to which you have access is displayed: "Ready to Arm. Cafeteria."
- Enter the Arming Command Sequence you want for this partition.
- [#] + [#] opens the next partition to which you have access.
- The next partition to which you have access is displayed: "Ready to Arm. Office."
- Enter the Arming Command Sequence you want for this partition.
- After arming any or all partitions to which you have access, you may exit Single Partition Mode by holding the [*] key for at least two seconds. The system will also drop out of Single Partition Mode after 40 seconds without a keypad entry.

7.6.5 Disarming from the Master Keypad

To disarm *all* the Partitions to which you have access:

• [PIN] + [Off]. This will disarm all the partitions to which you have access even if they are already disarmed.

To disarm only some of the Partitions to which you have access:

- [PIN] + [#] + [#]. This puts you into Single Partition Mode.
- The first partition to which you have access is displayed: "Armed. Cafeteria."
- If you wish to disarm this partition, enter [Off]. If not, go to the next step.
- [#] + [#] opens the next partition to which you have access.
- The next partition to which you have access is displayed: "Armed. Office."
- If you wish to disarm this partition, enter [Off]. If not, go to the next step.
- After disarming any or all partitions to which you have access, you may exit Single Partition Mode by holding the [*] key for at

LED	Off	Flashing	On
Armed	All partitions are disarmed.	One or more partitions are armed, or	All Partitions are armed, and no
(rea)		an alarm has occurred.	alarms have occurred.
Status	Not ready to arm (if the Armed LED is	One or more zones are bypassed.	All partitions are ready to arm.
(green)	On, all partitions are armed).		
Power	The Control Panel has lost all power;	Control Panel problems exist.	Normal Operation.
(green)	no AC or battery.	See Error Displays.	The Control Panel is running on AC power with no problems,
Fire (red)	There are no fire alarms.	A fire zone is in alarm.	A fire trouble condition exists.

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least two seconds. The system will also drop out of Single Partition Mode after 40 seconds without a keypad entry.

7.7 Keypad Error Displays

7.7.1 General Information

Display	Meaning
DS7445/DS7445i: Power LED flashing	There is an Error Message. To
DS7447/DS7447E: Control Trouble Enter #87	display the message, enter [PIN] + [#]
	[8] [7].
DS7445/DS7445i: LED 1 On	There is a power failure, and the
DS7447/DS7447E: AC Power Failure	panel is operating on backup battery
	power.
DS7445/DS7445i: LED 2 On	If the system has just been through a
DS7447/DS7447E: Battery Trouble*	power failure, wait at least two hours
	for the battery to recharge, the enter
	[PIN] + [System Reset] to perform a
	battery test,
DS7445/DS7445i: LED 3 On	The communicator failed to
DS7447/DS7447E: Communicator Err**	communicate with the Central
	Station.
DS7445/DS74451: LED 4 On	Internal error in the control circuitry or
DS7447/DS7447E: System Fault	optional circuitry. See System Faults.
DS7445/DS7445/: LED 5 On	One of the keypads is not responding
DS7447/DS7447E: Keypad Fault	to the Control Panel.
DS7443/DS7443/: LED 6 On	One of the keypad housings has
	The multipley hus is defective or hes
DS7443/DS7443I. LED 7 OII	heen shorted
DS7445/DS7445i LED 8 On	The auxiliary power has been
DS7447/DS7447F: Aux Power Fault	shorted
DS7445/DS7445i' not applicable	One of the zones is not responding to
DS7447/DS7447E: Zone Trouble	the Control Panel. This may also be
	displayed during power-up; if so
	ianore it.
DS7445/DS7445i: not applicable	Indicates a problem with an RF
DS7447/DS7447E: RF	(wireless) zone.
DS7445/DS7445i: not applicable	One of the multiplex smoke detectors
DS7447/DS7447E: Dirty Chamber	has failed the sensitivity test and may
-	require cleaning or replacement. The
	keypad beep may be cleared by
	entering [PIN] + [Off].

Error Displays can only be read when the control is disarmed. Some Control Panel Errors, such as battery trouble and any RF troubles, will cause the keypad sounders to beep every 10 seconds. The keypad sounders may be silenced for 4 hours by entering:

[PIN] + [Off].

The sounders will continue to resound until the problem is fixed. To Clear a display, enter:

[PIN] + [System Reset].



Clear the Error Display only on the advice of your installing company or if you are certain the problem has been remedied.

IMPORTANT

NOTE: System faults may be read from any keypad because they are system-wide. All other Error Displays are limited to the partition the standard keypad is in. If you are on a Master keypad, you may read Error Displays one partition at a time.

7.7.2 System Faults

System faults are designated as follows:

[#] [8] [7] will display	[#] [8] [9] will display
RAM Fault	System Fault 01
ROM Fault	System Fault 02
EEPROM Fault	System Fault 03
Ground Fault	System Fault 04
2Ph/Bell Fault = loss of communication to DS7420i	System Fault 10
Line 1 Fault = DS7420I phone line 1 fault	System Fault 11
Line 2 Fault = DS7420I phone line 2 fault	System Fault 12
Bell Fault = DS7420i bell circuit fault	System Fault 13
Aux. Relay Fault = DS7420I auxiliary relay fault	System Fault 14
Oct. Relay Fault = loss of communication to DS7488	System Fault 20
Reserved for older panels	System Fault 50
AR IB Queue Full = modem buffer full	System Fault 51
AR Host Down = network data switch down	System Fault 52
AR Unreg. Modem = modem not registered	System Fault 53
AR Power Fail = power source below defined threshold	System Fault 54
AR Network Lost = loss of network	System Fault 55
AR Modem HW Err = modem hardware error	System Fault 56
AR Modem SW Err = modem software error	System Fault 57
AR Opt. Bus Err = loss of communications to ARDIS module	System Fault 58
AR Corrupt MSG = message error	System Fault 59

7.7.3 Event History

The History Buffer stores the last 400 events in memory. The DS7447/DS7447E can display all of these events. If this test is performed from a Master keypad, it must be in Single Partition Mode. The DS7445/DS7445i will only display those zones (1-8) that have alarmed since the last Event History Readback. The RF3341 cannot display history events.

To readback the Event History Buffer:

- Press [PIN] + [#] [8] [9]. On a DS7447/DS7447E keypad, the last event to take place will be displayed. On a DS7445/DS7445i keypad, the zone LEDs for any zones that have alarmed since the last Event History Readback in that partition will flash.
- Scroll through the events using the [9], [6], and [#] keys as follows: To begin scrolling back through the events, press the [#] key. The [#] key will scroll you back through the history line by line. The [9] key will scroll you back in reverse chronological order by event. A [6] will scroll you back up through the events (toward the most recent) by event.

Each event consists of two or three lines or display screens. The first line/screen will be the event title and user. The second line/ screen will be the date of the event or the change being made. If there is a third line/screen, it will be the date of the change.

- **NOTE:** When performing this from a Master keypad, each partition will display its own history.
- To exit the Event History Mode, press the [*] key or wait 20 seconds and the keypad will exit automatically.

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7.8 Testing Your System

7.8.1 Zone (System Walk) Test

The Zone Test is used to confirm that detectors will report alarms to the keypad. A Zone Test works on all zones, except 24-hour zones and fire zones. While the keypad is in a Zone Test, no control panel alarms will activate an alarm, except 24-hour zone alarms and fire alarms; these will override the Zone Test function.

To perform a Zone Test:

- Press [PIN] + [#] [8] [1].
 - The DS7445/DS7445i zone LEDs of any untested zones will flash.

- The DS7447/DS7447E displays "Test Zone" followed by the zone number of any zones that have not been tested.

• Pick any untested zone and manually cause a detector to alarm using a method specified in the detector's Installation Instructions.

- The DS7445/DS7445i zone LED for the zone currently being tested will turn on steady.

- The DS7447/DS7447E displays "Now Testing" followed by the zone number of the zone that is currently being tested.

• Clear the alarm condition from the detector using a method specified in the detector's Installation Instructions, and trigger an alarm on the next detector in that zone. Continue until all detector's in that zone have been tested.

- As each zone is tested, its DS7445/DS7445i zone LED turns off.

- As each zone is tested, the DS7447/DS7447E display returns to "Test Zone" and indicates the remaining untested zones.

- Test each zone.
- Exit the Zone Test using [PIN] + [#].

7.8.2 Battery Tests

You may perform a test of the battery and the local sounder or just test the battery. If these tests are performed from a Master keypad, it must be in Single Partition Mode. System Tests are not available from RF (wireless) keypads.

To initiate a Local Battery / Sounder Test:

- Press [PIN] + [#] [8] [5]. All keypad LEDs will turn on. The keypad sounder and all alarm sounding devices will operate for two seconds. If the test fails, the control panel will indicate a control problem. See *Error Displays* on page 30.
 - **NOTE:** If power in your building has been off recently, wait two hours for the battery to recharge and then try again.

To initiate a Battery Test:

 Press [PIN] + [System Reset]. The control panel will perform a battery test. The control panel will report a Low Battery or a Low Battery Restoral if necessary.

7.8.3 Communicator Test

This test is available only if the system transmits alarms and system information to a monitoring service, and has been programmed by the security installing company to permit communicator tests. This test can be performed from a Master Keypad. The account code for partition #1 will be used. System Tests are not available from RF (wireless) keypads.

To initiate a Communicator Test:

- Press [PIN] + [#] [8] [2]. A long beep will sound. A "Test" report is sent to the monitoring service. If the test fails, the keypad sounder will sound continuously. To silence the sounder, press [System Reset].
- **NOTE:** This test may take several minutes to complete because the control panel will try ten attempts.

7.8.4 Fire Walk Test

This test is used to confirm that Smoke detectors will report alarms to the keypads. The Fire Walk Test tests all fire zones, including verified fire and waterflow.

At the start of the Fire Walk Test a Fire Walk Test report, if programmed, is sent to the central station. Fire alarm reports are not sent to the central station during the Fire Walk Test. A Fire Walk Test restoral is sent upon completion of the Fire Walk Test.

The Fire Walk Test is enabled for 20 minutes once it is started. The test time is extended to 20 minutes every time another zone is tested.

When a fire zone is tested, any output programmed to follow that zone will activate for 5 seconds.

To perform a Fire Walk Test:

- Press [PIN] + [#] [9] [1].
- The DS7445/DS7445i zone LEDs of any untested zones will flash.
- The DS7447/DS7447E displays "Fire Test" followed by the zone number of any zones that have not been tested.
- Pick any untested zone and manually cause a detector to alarm using a method specified in the detector's Installation Instructions.

- The DS7445/DS7445i zone LED for the zone currently being tested will turn on steady.

- The DS7447/DS7447E displays "Fire Testing" followed by the zone number of the zone that is currently being tested.
- Clear the alarm condition from the detector using a method specified in the detector's Installation Instructions, and trigger an alarm on the next detector in that zone. Continue until all detector's in that zone have been tested.

- As each zone is tested, its DS7445/DS7445i zone LED turns off.

- As each zone is tested, the DS7447/DS7447E display returns to "Fire Test" and indicates the remaining untested zones. *
- Test each zone as instructed by your installing company.
- Exit the Zone Test using [PIN] + [#].
- **NOTE:** A Fire Walk Test will prevent the system from sending any Fire Reports during the test.

8.0 How to Program the Control Panel

8.1 Entering the Programmer's Mode

To enter the Programmer's Mode, enter the Programmer's Code followed by [#] [0]. Shorting the program pads (see section 2.0 for location) on the control panel will also activate Programmer's Mode.

NOTE: The factory set default Programmer's Code is [9] [8] [7] [6]. If the system has been reprogrammed for 6-digit PINs, the default Programmer's Code will be [9] [8] [7] [6] [5] [4].

8.2 **Reading Back a Program Address**

Once you are in the programmer's mode, to read back the value of a Program Address, enter that Program Address followed by [#]. Each data digit is displayed one data digit at a time. To view the second data digit, enter the # button again. The display will look like this:



8.3 Entering a Value in a Program Address

To enter a value in the Program Address, enter the Program Address, then enter the value for each Data Digit, then enter [#] to save it and move on to the next Program Address. Entering data digit 1 will increment you to the next data digit.

The display will show the Program Address and will display the value of each Data Digit after you enter it. The data will be programmed (saved) when you press the [#] key. The control panel will automatically increment to the next program address.

- If you wish to program that next address, enter the necessary information.
- If you wish to read back the value of that address, press the [#] key.
- If you wish to program a different address, press the [*] key two times and enter the program address you wish to program.

If you make a mistake at any time, press the [*] key two times (before pressing the [#] key). This will clear the display, allowing you to enter the program address you wish to work with.

HEX values 8.4

Some Data Digit values will be higher than 9. These values must be programmed by pressing the [*] key followed by some other number. These values will display as HEX characters (A - F) when entered. Example: entering *0 at the keypad will display an A.

The HEX character values are as follows: $^{*}0 = 0^{*}$ *1 = B *2 = C *3 = D *4 = E *5 = F

8.5 Defaults

The DS7400Xi is shipped from the factory as a working, pre-programmed control. Many of the programming addresses may already be set to the values you need. The default values are shown in Reverse Print.

If the value you would like is in Reverse Print, you don't need to re-program this address.

In the example, a "0" is the default value:

	0	1	2	3	4	5	6	
Feature 1	lacksquare			lacksquare	lacksquare		۲	
Feature 2		lacksquare		\bullet		\bullet	\bullet	
Feature 3			\bullet		\bullet	\bullet	\bullet	

If the default value is not shown in **Reverse Print**, it will be shown in a separate table.

8.6 Setting the Control to the Factory Default



Only enter [0] [1] [#] in Program Address 4058 when you are completely sure you want to erase all installer programming. Entering [0] [1] [#] in Program Address 4058 will immediately reset the control to the factory default. Any programming already done by the installer will be erased. This action cannot be reversed.

To set the control's programming values back to the default, enter the programming mode, then enter [4][0][5][8][0] [1] [#].

8.7 Exiting the Programmer's Mode

To exit the Programmer's Mode, press the [*] key for a minimum of 2 seconds. If no keypad entries are made for 4 minutes, the control will automatically exit you from the Programmer's Mode.

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9.0 Understanding the Programming Charts

The Programming Reference Guide makes use of three types of charts. Each is described below.

If the chart looks like this, a combination of features is available to be programmed for that particular address.



If the chart looks like this, only a single feature is available to be programmed for that particular address.



Some pages may also include a Default chart that looks like this:

Zone Function	Address	Default				
1	0001	23				
2	0002	24				
3	0003	21				

10.0 Programming

10.1 General Control Programing: Program Address (0000)

General Control programming defines the system-wide general operating parameters. See Glossary (section 6.1) for further details.

1 ●	2	3	En i 4	ter 5	the	Da 7	ta D	Digi	t as	a:					l	1	1
1 ●	2	3	4	5	6	7	0	0	*0								
•					0	1	Ø	9	^0	*1	*2	*3	*4	*5	\rightarrow	I	
	-								lacksquare		\bullet	ullet	lacksquare	ullet			
											\bullet	ullet					
								ullet			ullet	ullet					
											ullet	ullet					
											ullet	ullet	lacksquare	ullet			
									\bullet		ullet	ullet	lacksquare	ullet			
								\bullet		\bullet		\bullet		ullet			
									lacksquare				lacksquare				
-		A state of the state of th					• •	• •	• •	• •	• •	• •	• •	• •	• •	• •	• •

*0 - *5 are Hex values. They will display as A - F at the keypads.

	Enter DD as a:								
Select Options	0	1	2	3	4	5	6	7	8
Restore zone when Sounders Silence									
Restore zone when Zone Restores								\bullet	
Restore zone when System is Disarmed									ullet
Allow Swinger Shunts. Send Bypass Reports									
Allow Swinger Shunts. No Bypass Reports								\bullet	lacksquare

- ** = Normal Arming = [PIN] + [On]: If programmed, Normal Arming arms the entire system while allowing entry delays for entry/ exit zones.
 - Perimeter Instant Arming = [PIN] + [No Entry] + [Perimeter Only]: If programmed, Perimeter Instant Arming arms only the perimeter of the system and does not allow entry delays for entry/exit zones.
 - Perimeter Arming = [PIN] + [Perimeter Only]: If programmed, Perimeter Arming arms only the perimeter of the system while allowing entry delays for entry/exit zones.
 - Custom Arming = [PIN] + [#] [4]: If programmed, Custom Arming allows custom arming of the system and bypasses the zone functions specified in data addresses 2725-2728.
 - Maximum Security Arming = [PIN] + [No Entry] + [On]: If programmed, Maximum Security Arming arms the entire system and does not allow entry delays for entry/exit zones.

Programming a Zone

Programming a Zone is a four step process. These steps must be performed, in order, to program a zone.

- Step 1 is programming Zone Functions (what the zone will do in alarm),
- Step 2 is assigning a Zone Function to the zone.
- Step 3 is assigning a Zone Type to the zone.
- Step 4 is assigning the zone to a partition.

Step 1: Programming the Zone Functions

10.2 Zone Function Programming: Program Addresses (0001-0030)

A Zone Function is the description of how a zone will behave. Up to 30 different Zone Functions may be programmed. You may use the default values (which are already programmed into the panel) and skip this step, or change the defaults, or add new Zone Functions. **See section 6.2 for further details.**

					Inte	r the	e Da	ta	Digi	it as	s a:				
Select	t Optic	ons) ·	1	2 3	8 4	5	6	7	*2	*3	*4	*5		
nvisible A	Alarm													Select Option	
Silent Ala	rm													Interior Delayed	
Steady A	arm Out	out						•				\bullet		Perimeter Instant	
Pulsing A	larm Out	put											\bullet	24-Hour	
Alarm on	Short						•	•	•						
Alarm on	Open	•				2					•	•	•	Entry/Exit Delay #1	
	n Open					-	-	•						Entry/Exit Delay #2	
rouble o	n Short							_			•		•	Interior Entry/Exit Followe	•
*2	- *5 are	Hex valu	es. T	hey	will d	splay	as C	- F a	at the	e key	pad	S	_	Interior Home/Away	
** = Only	y when a	disarmed	l. WI	hen	arme	d, thi	s bec	come	s Al	larm	on (Oper	1 or S	rt for Interior Instant	
not	be prog	rammed	for 7	Froul	ole or	n Ope	en.	15 (D	074	50 8	inu i	557.	+52) :	Day Monitor	
								.14 \/						Keyswitch (See note below	v)
Value	Zone	Address		(Wi	ll be f	orce	eral d to c	liffer	anu ent s	es /alue	es w	hen	in	Fire Zone with verification	
(fill in)	Funct.	Audicaa	С	òmr	nerci	al Fir	e Mo	de. S	See	sect	ion '	10.18	8.3)	Fire Zone w/out verificatio	า
	1	0001	2 =	= Ste	adv a	larm	outpu	ıt. ala	arm o	on sh	nort a	and c	pen.	Waterflow	
			3 =	= Ent	ry/exi	t dela	ıy 1.	,					P	Supervisory	
	2	0002	2 =	= Ste	ady a	larm	outpu	it, ala	arm o	on sh	nort a	and c	pen.		
	3	0003	2 =	- L11 - Ste	adv a	larm	uy ∠. outoi	it. ala	arm d	on st	nort a	and c	pen.	Entry/Exit Delay Cancel 1	
	°,		1 =	= Pe	rimete	er Inst	ant.	.,					,po	Entry/Exit Delay Cancel 2	
	4	0004	2 =	= Ste	ady a	larm	outpu	it, ala	arm o	on sh	nort a	and c	pen.		
	5	0005	2 =	- 1110 - Ste	adv a	larm	outou	it. ala	rm o	on st	nort a	and c	pen.		
	°,		6 =	= Inte	erior h	ome/	away						,po		
	6	0006	2 =	= Ste	ady a	larm	outpu	it, ala	arm o	on sh	nort a	and c	pen.		
	7	0007	2 =	- 1110 = Ste	adv a	larm	outoi	it. ala	arm o	on st	nort a	and c	pen.		
			2 =	= 24-	hour.		o a que	,		00.			,p 0	Note: If digit $2 = 9$ (keyswitch), us this chart for digit 1.	se
	8	8000	7 = *0	= Puk – Fin	sing al	arm o with	utput,	alam	n on	shor	t, trou	ıble c	on ope	Select Option	F
	9	0009	2 =	= Ste	adv a	larm	outpu	it. ala	arm o	on sh	nort a	and c	pen.		Ľ
	-		1 =	= Pe	rimete	er Inst	ant.	,						Single Partition-No Force Arm	Ľ
	10	0010	2 =	= Ste	ady a	larm	outpu ant	it, ala	arm o	on sh	nort a	and c	pen.	Single Partition-Can Force Arm	
	11	0011	2 =	= Ste	ady a	larm	outpu	ıt, ala	arm o	on sł	nort a	and c	pen.	All Partitions-No Force Arm	
		0010	1=	= Pei	rimete	er Inst	ant.	+ 0	rm -		ort	and a	non	All Partitions-Can Force Arm	
	10	0012	1 4 =	= 26	auy a	ann	ouipi	ii, ala	1111 (on sr		anu c	pen.		
	12		1 =	= Pe	imete	er inst	anı.								- ام
	12 13	0013	1 = 2 = 1 =	= Pei = Ste = Pei	ady a	er inst Iarm er Inst	ant. outpu ant.	it, ala	arm o	on sł	nort a	and c	pen.	An open loop will always pro a steady alarm response.	d
	12 13 14	0013 0014	1 = 2 = 1 = 2 = 1 =	= Pei = Ste = Pei = Ste = Pei	ady a rimete ady a rimete	er Inst Iarm er Inst Iarm er Inst	outpu ant. outpu ant.	it, ala it, ala	arm o arm o	on sh on sh	nort a	and c and c	open. open.	An open loop will always pro a steady alarm response.	d
	12 13 14 15	0013 0014 0015	1 = 2 = 1 = 2 = 1 = 2 = 1 =	= Pei = Ste = Pei = Ste = Pei = Ste = Pei	ady a rimete ady a rimete ady a rimete	er Inst larm larm larm er Inst larm er Inst	outpu ant. outpu ant. outpu ant.	it, ala it, ala it, ala	arm o arm o arm o	on sh on sh on sh	nort a nort a nort a	and c and c and c	open. open. open.	An open loop will always pro a steady alarm response.	dı
	12 13 14 15 16	0013 0014 0015 0016	1 = 2 = 1 = 2 = 1 = 2 = 2 = 2 =	= Pei = Ste = Pei = Ste = Pei = Ste = Ste	ady a rimete ady a rimete ady a rimete ady a	er Inst er Inst larm er Inst larm er Inst larm	outpi ant. outpi ant. outpi ant. outpi	it, ala it, ala it, ala it, ala	arm o arm o arm o arm o	on sh on sh on sh on sh	nort a nort a nort a nort a	and c and c and c and c	open. open. open.	An open loop will always pro a steady alarm response.	odu

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Data Digit

Step 2: Assigning a Zone Function to the Zone

In this step, a Zone function is assigned to the Zone.

10.3 Zone Programming: Program Addresses (0031-0278)

In Zone Programming, each zone is defined according to its input (single or multiple zone input, or a DS7465) and its Zone Function (1-30) or Output Function (1-24). The DS7465's relay is the only device that will follow the output functions; its input loop will follow a zone function. All single and multiple zone inputs will follow a zone function. **See section 6.3 for further details.**



Options	Zone Function Value				
Disable a zone	00				
Enter a Zone Function Value	01-30				

The DS7465 occupies two zones. The odd numbered zone of the zone pair is the input zone. The even numbered zone of the zone pair is the output relay. The output follows an output function.

Zone Number	Address	Zone Function Default
1	0031	01
2	0032	02
3	0033	03
4	0034	04
5	0035	05
6	0036	06
7	0037	07
8	0038	08
9-248	0039-0278	00

Hint: Address = Zone Number + 30
Step 3: Assigning a Zone Type to the Zone

10.4 Zone Programming: Zone Type Program Addresses (0415-0538)

In Zone Programming, each zone is defined according to its Input (single or multiple zone input, or a DS7465) and its Zone Function or Output function (1-24). The DS7465's relay is the only device that will follow the output functions; its input loop will follow a zone function. All single and multiple zone inputs will follow a zone function. See section 6.3 for further details.



Zones	Address	Zones	Address	Zones	Address	Zones	Address
Zones 1 & 2	0415	Zones 65 & 66	0447	Zones 129 & 130	0479	Zones 193 & 194	0511
Zones 3 & 4	0416	Zones 67 & 68	0448	Zones 131 & 132	0480	Zones 195 & 196	0512
Zones 5 & 6	0417	Zones 69 & 70	0449	Zones 133 & 134	0481	Zones 197 & 198	0513
Zones 7 & 8	0418	Zones 71 & 72	0450	Zones 135 & 136	0482	Zones 199 & 200	0514
Zones 9 & 10	0419	Zones 73 & 74	0451	Zones 137 & 138	0483	Zones 201 & 202	0515
Zones 11 & 12	0420	Zones 75 & 76	0452	Zones 139 & 140	0484	Zones 203 & 204	0516
Zones 13 & 14	0421	Zones 77 & 78	0453	Zones 141 & 142	0485	Zones 205 & 206	0517
Zones 15 & 16	0422	Zones 79 & 80	0454	Zones 143 & 144	0486	Zones 207 & 208	0518
Zones 17 & 18	0423	Zones 81 & 82	0455	Zones 145 & 146	0487	Zones 209 & 210	0519
Zones 19 & 20	0424	Zones 83 & 84	0456	Zones 147& 148	0488	Zones 211 & 212	0520
Zones 21 & 22	0425	Zones 85 & 86	0457	Zones 149 & 150	0489	Zones 213 & 214	0521
Zones 23 & 24	0426	Zones 87 & 88	0458	Zones 151 & 152	0490	Zones 215 & 216	0522
Zones 25 & 26	0427	Zones 89 & 90	0459	Zones 153 & 154	0491	Zones 217 & 218	0523
Zones 27 & 28	0428	Zones 91 & 92	0460	Zones 155 & 156	0492	Zones 219 & 220	0524
Zones 29 & 30	0429	Zones 93 & 94	0461	Zones 157 & 158	0493	Zones 221 & 222	0525
Zones 31 & 32	0430	Zones 95 & 96	0462	Zones 159 & 160	0494	Zones 223 & 224	0526
Zones 33 & 34	0431	Zones 97 & 98	0463	Zones 161 & 162	0495	Zones 225 & 226	0527
Zones 35 & 36	0432	Zones 99 & 100	0464	Zones 163 & 164	0496	Zones 227 & 228	0528
Zones 37 & 38	0433	Zones 101 & 102	0465	Zones 165 & 166	0497	Zones 229 & 230	0529
Zones 39 & 40	0434	Zones 103 & 104	0466	Zones 167 & 168	0498	Zones 231 & 232	0530
Zones 41 & 42	0435	Zones 105 & 106	0467	Zones 169 & 170	0499	Zones 233 & 234	0531
Zones 43 & 44	0436	Zones 107 & 108	0468	Zones 171 & 172	0500	Zones 235 & 236	0532
Zones 45 & 46	0437	Zones 109 & 110	0469	Zones 173 & 174	0501	Zones 237 & 238	0533
Zones 47 & 48	0438	Zones 111 & 112	0470	Zones 175 & 176	0502	Zones 239 & 240	0534
Zones 49 & 50	0439	Zones 113 & 114	0471	Zones 177 & 178	0503	Zones 241 & 242	0535
Zones 51 & 52	0440	Zones 115 & 116	0472	Zones 179 & 180	0504	Zones 243 & 244	0536
Zones 53 & 54	0441	Zones 117 & 118	0473	Zones 181 & 182	0505	Zones 245 & 246	0537
Zones 55 & 56	0442	Zones 119 & 120	0474	Zones 183 & 184	0506	Zones 247 & 248	0538
Zones 57 & 58	0443	Zones 121 & 122	0475	Zones 185 & 186	0507	When using premises	RF
Zones 59 & 60	0444	Zones 123 & 124	0476	Zones 187 & 188	0508	 zones 129-136 are 	reserved.
Zones 61 & 62	0445	Zones 125 & 126	0477	Zones 189 & 190	0509	• zones 137-248 are	available as RF zo
Zones 63 & 64	0446	Zones 127 & 128	0478	Zones 191 & 192	0510	only! Wired zones	can not reside in zo

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Step 4: Assigning a Partition to the Zone

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10.5 Zone Partition Assignment: Program Addresses (0287-0410)

In Zone Partition Assignment, each zone is assigned to a partition. By default, all zones are assigned to partition 1.

The partition assignment for odd numbered zones is programmed in the first data digit of these addresses. The partition assignment for even numbered zones is programmed in the second data digit of these addresses.

For example, to assign zone 1 to partition 1 and zone 2 to partition 2, program address 0287 as 01.

Zones	Address	Zones	Address	Zones	Address	Zones	Address
Zones 1 & 2	0287	Zones 65 & 66	0319	Zones 129 & 130	0351	Zones 193 & 194	0383
Zones 3 & 4	0288	Zones 67 & 68	0320	Zones 131 & 132	0352	Zones 195 & 196	0384
Zones 5 & 6	0289	Zones 69 & 70	0321	Zones 133 & 134	0353	Zones 197 & 198	0385
Zones 7 & 8	0290	Zones 71 & 72	0322	Zones 135 & 136	0354	Zones 199 & 200	0386
Zones 9 & 10	0291	Zones 73 & 74	0323	Zones 137 & 138	0355	Zones 201 & 202	0387
Zones 11 & 12	0292	Zones 75 & 76	0324	Zones 139 & 140	0356	Zones 203 & 204	0388
Zones 13 & 14	0293	Zones 77 & 78	0325	Zones 141 & 142	0357	Zones 205 & 206	0389
Zones 15 & 16	0294	Zones 79 & 80	0326	Zones 143 & 144	0358	Zones 207 & 208	0390
Zones 17 & 18	0295	Zones 81 & 82	0327	Zones 145 & 146	0359	Zones 209 & 210	0391
Zones 19 & 20	0296	Zones 83 & 84	0328	Zones 147& 148	0360	Zones 211 & 212	0392
Zones 21 & 22	0297	Zones 85 & 86	0329	Zones 149 & 150	0361	Zones 213 & 214	0393
Zones 23 & 24	0298	Zones 87 & 88	0330	Zones 151 & 152	0362	Zones 215 & 216	0394
Zones 25 & 26	0299	Zones 89 & 90	0331	Zones 153 & 154	0363	Zones 217 & 218	0395
Zones 27 & 28	0300	Zones 91 & 92	0332	Zones 155 & 156	0364	Zones 219 & 220	0396
Zones 29 & 30	0301	Zones 93 & 94	0333	Zones 157 & 158	0365	Zones 221 & 222	0397
Zones 31 & 32	0302	Zones 95 & 96	0334	Zones 159 & 160	0366	Zones 223 & 224	0398
Zones 33 & 34	0303	Zones 97 & 98	0335	Zones 161 & 162	0367	Zones 225 & 226	0399
Zones 35 & 36	0304	Zones 99 & 100	0336	Zones 163 & 164	0368	Zones 227 & 228	0400
Zones 37 & 38	0305	Zones 101 & 102	0337	Zones 165 & 166	0369	Zones 229 & 230	0401
Zones 39 & 40	0306	Zones 103 & 104	0338	Zones 167 & 168	0370	Zones 231 & 232	0402
Zones 41 & 42	0307	Zones 105 & 106	0339	Zones 169 & 170	0371	Zones 233 & 234	0403
Zones 43 & 44	0308	Zones 107 & 108	0340	Zones 171 & 172	0372	Zones 235 & 236	0404
Zones 45 & 46	0309	Zones 109 & 110	0341	Zones 173 & 174	0373	Zones 237 & 238	0405
Zones 47 & 48	0310	Zones 111 & 112	0342	Zones 175 & 176	0374	Zones 239 & 240	0406
Zones 49 & 50	0311	Zones 113 & 114	0343	Zones 177 & 178	0375	Zones 241 & 242	0407
Zones 51 & 52	0312	Zones 115 & 116	0344	Zones 179 & 180	0376	Zones 243 & 244	0408
Zones 53 & 54	0313	Zones 117 & 118	0345	Zones 181 & 182	0377	Zones 245 & 246	0409
Zones 55 & 56	0314	Zones 119 & 120	0346	Zones 183 & 184	0378	Zones 247 & 248	0410
Zones 57 & 58	0315	Zones 121 & 122	0347	Zones 185 & 186	0379		
Zones 59 & 60	0316	Zones 123 & 124	0348	Zones 187 & 188	0380		
Zones 61 & 62	0317	Zones 125 & 126	0349	Zones 189 & 190	0381		
Zones 63 & 64	0318	Zones 127 & 128	0350	Zones 191 & 192	0382]	



10.6 Zone Bypass Programming: Program Addresses (2721-2724)

Zone Bypass programming determines which zone functions can be bypassed. Zone functions that can not be bypassed can not be force armed either. Fire zones can never be manually bypassed, but can be force armed. The Default of [0] or [8] means those zones can be bypassed.

PA 2721

Data Digit

Note: This programming item does not affect Custom Arming Programming (PA 2725-2778) or Swinger Shunt Bypasses (see programming for Program Address 0000).



lect Options on 17 Can Be Bypassed on 18 Can Be Bypassed on 19 Can Be Bypassed on 20 Can Be Bypassed *0 - *5 are Hex	0	1	2	3	En 4	ter 5	the 6	Da	ta I 8	Digi 9	t a: *0	s a:	*2	*2	*1	*5		Data
lect Options on 17 Can Be Bypassed on 18 Can Be Bypassed on 19 Can Be Bypassed on 20 Can Be Bypassed *0 - *5 are Her	0	1	2 •	3	En 4	ter 5	the 6	Da 7	ta I 8	Digi 9	t a: *0	s a:	*2	*2	*1	*5		 ↑
lect Options on 17 Can Be Bypassed on 18 Can Be Bypassed on 19 Can Be Bypassed on 20 Can Be Bypassed *0 - *5 are Hex	0	1	2 ●	3	En 4	ter 5	the 6	Da 7	ta I 8	Digi 9	t a: *0	s a: *1	*2	*3	*1	*5		
ect Options on 17 Can Be Bypassed on 18 Can Be Bypassed on 19 Can Be Bypassed on 20 Can Be Bypassed *0 - *5 are Her	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1	2 ●	3	4	5	6	7	8	9	*0	*1	*2	*2	*1	*5		
on 17 Can Be Bypassed on 18 Can Be Bypassed on 19 Can Be Bypassed on 20 Can Be Bypassed *0 - *5 are Hes	 • • • • • 		•		•			ľ	Ŭ	v					- 4			_
on 18 Can Be Bypassed on 19 Can Be Bypassed on 20 Can Be Bypassed *0 - *5 are He	•	•	Ē		—													
on 19 Can Be Bypassed on 20 Can Be Bypassed *0 - *5 are He	•			-														
on 20 Can Be Bypassed *0 - *5 are He		_				-												
*0 - *5 are He			•							-	-							
	x val	ues.	They	/ will	disp	lay a	as A	-Fa	t the	keyp	ads		1				J	
		ſ					Enf	er f	he	Dat	аD)i <i>c</i> ii	as	a:				
Select Options			0	1	2	3	4	5	6	7	8	9	*0	*1	*2	*3	*4	*5
e Function 21 Can Be Byp	bass	ed		·	-	-	•	<u> </u>			•	J	•	·	-		•	
e Function 22 Can Be Byp	bass	ed	•	\bullet					_		•	•	-		•		-	
e Function 23 Can Be Byp	bass	ed	\bullet	\bullet	\bullet	•					•	•						
e Function 24 Can Be Byp	bass	ed								\bullet								
																		ata 1
					En	ter	the	Da	ta D	Digi	t as	a:						
elect Options	0	1	2	3	4	5	6	7	8	9	*0	*1	*2	*3	*4	*5		•
tion 25 Can Be Bypassed)	\bullet		ullet		•		ullet		\bullet		•		ullet			
tion 26 Can Be Bypassed		<u>'</u>	<u> </u>	\perp						\bullet			•	•				
tion 27 Can Be Bypassed		<u>' ●</u>	<u>'</u>							•	•	•						
tion 28 Can Be Bypassec		<u>' </u>	<u>'</u>															
		11100	Ihe	v will	l disr	blav a	as A	- F ai	t the I	keypa	ads.							
*0 - *5 are He	ex va	auco.		, .														
*0 - *5 are He	ex va	auco.					Ent	er t	he	Data	a D	igit	as	a:				
*0 - *5 are He Select Options	ex va		0	1	2	3	Ent 4	ert 5	he l	Data	a D 8	igit 9 *	as 0 *	a: 1 *	2 *	'3 *	4 *;	5
*0 - *5 are He Select Options the Function 29 Can Be By	ex va	sed	0	1	2 ●	3	Ent 4	5	he	Data 7	a D 8	igit 9 *	as 0 *	a: 1 *	2 *	*3 *	4 *;	5
	Select Options Function 21 Can Be Byp Function 22 Can Be Byp Function 23 Can Be Byp Function 24 Can Be Byp *0 - *5 ion 25 Can Be Bypassed tion 26 Can Be Bypassed tion 27 Can Be Bypassed	Select Options Provide Function 21 Can Be Bypass Function 22 Can Be Bypass Function 23 Can Be Bypass Function 24 Can Be Bypass *0 - *5 are No - *5 are ion 25 Can Be Bypassed tion 26 Can Be Bypassed tion 27 Can Be Bypassed	Select Options Provide Function 21 Can Be Bypassed Function 22 Can Be Bypassed Function 23 Can Be Bypassed Function 24 Can Be Bypassed *0 - *5 are Hex Provide Function 24 Can Be Bypassed *0 - *5 are Hex Function 25 Can Be Bypassed tion 25 Can Be Bypassed tion 27 Can Be Bypassed ()	Select Options 0 a Function 21 Can Be Bypassed a a Function 22 Can Be Bypassed a a Function 23 Can Be Bypassed a a Function 24 Can Be Bypassed a b Function 24 Can Be Bypassed a a Function 25 Can Be Bypassed a a function 26 Can Be Bypassed a a function 27 Can Be Bypassed a	Select Options 0 1 a Function 21 Can Be Bypassed • • a Function 22 Can Be Bypassed • • a Function 23 Can Be Bypassed • • a Function 24 Can Be Bypassed • • a Function 24 Can Be Bypassed • • *0 - *5 are Hex values. * • *0 - *5 are Hex values. * • a function 25 Can Be Bypassed • • a function 26 Can Be Bypassed • • a function 27 Can Be Bypassed • •	Select Options 0 1 2 a Function 21 Can Be Bypassed • • • a Function 22 Can Be Bypassed • • • a Function 23 Can Be Bypassed • • • a Function 24 Can Be Bypassed • • • a Function 24 Can Be Bypassed • • • *0 - *5 are Hex values. They *0 - *5 are Hex values. They *0 - *5 are Hex values. They *0 - *5 are Hex values. They elect Options 0 1 2 3 4 ion 25 Can Be Bypassed • • • • • tion 26 Can Be Bypassed • • • • • tion 27 Can Be Bypassed • • • • •	Select Options 0 1 2 3 a Function 21 Can Be Bypassed Image: Can Be Bypassed	Select Options 0 1 2 3 4 a Function 21 Can Be Bypassed Image: Can B	Select Options 0 1 2 3 4 5 e Function 21 Can Be Bypassed • • • • • • • e Function 22 Can Be Bypassed • • • • • • • • e Function 23 Can Be Bypassed • • • • • • • • • e Function 24 Can Be Bypassed • • • • • • • • • *0 - *5 are Hex values. They will display as *0 - *5 are Hex values. They will display as *0 - *5 Can Be Bypassed •	Select Options 0 1 2 3 4 5 6 a Function 21 Can Be Bypassed a	Select Options 0 1 2 3 4 5 6 7 e Function 21 Can Be Bypassed •	Select Options 0 1 2 3 4 5 6 7 8 a Function 21 Can Be Bypassed a	Select Options 0 1 2 3 4 5 6 7 8 9 e Function 21 Can Be Bypassed •	Select Options 0 1 2 3 4 5 6 7 8 9 ^0 a Function 21 Can Be Bypassed Image: Can Be Bypassed<	Select Options 0 1 2 3 4 5 6 7 8 9 °0 °1 a Function 21 Can Be Bypassed a <t< td=""><td>Select Options 0 1 2 3 4 5 6 7 8 9 *0 *1 *2 a Function 21 Can Be Bypassed a <</td><td>Select Options 0 1 2 3 4 5 6 7 8 9 *0 *1 *2 *3 a Function 21 Can Be Bypassed Image: Select Option 22 Can Be Bypassed Image: Select Option 23 Can Be Bypassed Image: Select Option 23 Can Be Bypassed Image: Select Option 24 Can B</td><td>Select Options 0 1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 1</td></t<>	Select Options 0 1 2 3 4 5 6 7 8 9 *0 *1 *2 a Function 21 Can Be Bypassed a <	Select Options 0 1 2 3 4 5 6 7 8 9 *0 *1 *2 *3 a Function 21 Can Be Bypassed Image: Select Option 22 Can Be Bypassed Image: Select Option 23 Can Be Bypassed Image: Select Option 23 Can Be Bypassed Image: Select Option 24 Can B	Select Options 0 1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 1

10.7 Output Programming: Program Addresses (2734, 2735, 2736)

Output programming defines the event, partition, and type of alarm (burglary or fire) that will trigger each of the three physical outputs on the control panel.

See section 3.0 for the location of the physical outputs on the control panel. See Glossary (section 6.4) for further details.

Programmable Output 1 v	vill	Select Option	DD
be ON for 10 seconds after pressing [System Reset].	ər	Latch on ANY Zone Alarm**	0
Programmable Output 2 v	vill	ON during Entry Pre-Alert/Exit Warning	1
be OFF for 10 seconds af	ter	ON for 10 sec. after pressing [System Reset]	2
pressing [System Reset].	r	ON when system is Armed	3
		Ground Start	4
		System Status (ready to arm)	5
3		Zone Alarm	6
	1	Zone Alarm delayed by 20 sec.	7
Options	DD	Keypad Sounder Output	8
Disabled	0	Access Output (10 sec. pulse)	9
Armed Full	1	Keyfob	*0
Armed Partial	2	Panic Duress Output***	*1
Armed Any	3	On during battery test	*3



Auxillary

Toggle

4

Key

** = This includes invisible zones. See glossary for further details. *** = See section 6.4 for description of this option.

Output	Address	Default
Alarm	2734	63
Programmable Output 1	2735	33
Programmable Output 2	2736	23

10.8 Output Partition Assignment: Program Addresses (2737-2738)

In Output Partition Assignment, each On-board output is assigned to a partition. By default, outputs are assigned to all partitions.

Output	Address	Default
Alarm	2737-DD1	8
Programmable Output 1	2737-DD2	8
Programmable Output 2	2738-DD1	8



Data Digit

10.9 Partition Control Programming: Program Address (3420)

Partition Control programming defines the number of partitions in use and the common area (common area can only be partition 1). See Glossary (section 6.5) for further details.

Select Option	DD	
Use 1 Partition	0	
Use 2 Partitions	1	_
Use 3 Partitions	2	
Use 4 Partitions	3	
Use 5 Partitions	4	
Use 6 Partitions	5	
Use 7 Partitions	6	
Use 8 Partitions	7	μ

· ·	1	2)
Select Option	DD		
No Common Area	0		
Partition 1 Common to Partition 2 and 3	1		
Partition 1 Common to Partition 2 - 4	2		
Partition 1 Common to Partition 2 - 5	3		
Partition 1 Common to Partition 2 - 6	4		
Partition 1 Common to Partition 2 - 7	5		
Partition 1 Common to Partition 2 - 8	6		I

10.10 Quick Arm Control Programming: Program Address (3477)

Quick Arm Control programming defines which partitions can be quick armed (armed without requiring a PIN to be entered).

																		Data	a Digit
																		1	2
		_			En	ter	the	Da	ata	Dig	it a	s a:							
Select Options	0	1	2	3	4	5	6	7	8	9	*0	*1	*2	*3	*4	*5]—		
Partition 1 Quick Arm Enabled																			
Partition 2 Quick Arm Enabled			\bullet				\bullet					\bullet			•	ullet			
Partition 3 Quick Arm Enabled																lacksquare			
Partition 4 Quick Arm Enabled									\bullet										
							En	ter	the	Da	ta I	Digi	t as	s a:					
Select Options	S		0	1	2	3	4	5	6	7	8	9	*0	*1	*2	*3	*4	*5 -	
Partition 5 Quick Arm E	nabl	ed																	
Partition 6 Quick Arm E	nabl	ed												ullet					
Partition 7 Quick Arm E	nabl	ed																	
Partition 8 Quick Arm E	nabl	ed																	

10.11 Keypad Assignme	nt Programming:	Program Addresses	s (3131-3138)	
Keypad Assignment Programmir See Glossary (section 6.6) for f	ng is where you assig f urther details.	n the keypad type and th	e partition to which it bel	ongs.
NOTE Each keypad must have DS7447 Installation Gu	e its own Bus address <i>ide</i> (P/N: 22235). One	s. This must also be sele e keypad must be selecte	ected on the keypad via in d as keypad 1.	ts address pins. See DS7445/
Defaults: The default, if using	g only one keypad, is	an Alpha keypad belongi	ng to partition one.	
Program Address 3131	Program Address	3132 Program	Address 3133 P	rogram Address 3134
Data Digit 1 Data Digit 2	Data Digit 1 Data D	Digit 2 Data Digi	it 1 Data Digit 2	Data Digit 1 Data Digit 2
Keypad 1* Keypad 2 default = 1 default = 0	Keypad 3 Key default = 0 defa	pad 4 Keypad 5 ault = 0 default = 0	Keypad 6 K default = 0 c	eypad 7 Keypad 8 lefault = 0 default = 0
Program Address 3135	Program Address	3136 Program	Address 3137 P	rogram Address 3138
Data Digit 1 Data Digit 2	Data Digit 1 Data D	Digit 2 Data Digi	it 1 Data Digit 2 I	Data Digit 1 Data Digit 2
Keypad 9 Keypad 10 default = 0 default = 0	Keypad 11** Keypa default = 0 defa	ad 12** Keypad 13 ult = 0 default = 0	** Keypad 14** Ke default = 0 co scienments (see section	ypad 15** lefault = 0
6.11).	would, certain keypar			
 ** = Keypads 11-15 are connect keypad address 13 or 14), keypa Option Bus at keypad address Option Bus at keypad address 	ed to the Option Bus. ad 13 or 14 is unavail 15, keypad 15 is una 11-15, the correspond	If the DS7412 is connect able. Similarly, if the DS7 available; and if the DS7 ing keypad(s) is (are) una	ted to the Option Bus (at 420i is connected to the 488 is connected to the available.	
Select Options	0 1 2 3 –	Data Digit	Select Option	ns 0 1
Disabled		1 2	LCD Backlight Alv	wavs On
Alpha (LCD) Keypad			LCD Backlight Off L	Intil Keypress
I ED Keypad			Packlight selection affect	
Master Keynad***			Dacklight Selection allec	LIS All LOD Reypaus
*** = If only using one partition	, do not program key	vpads as Master Kevpad	S.	
Only program for a Master Keyp	ad if you need to view	w multiple partitions from	a	
single keypad.				
40.40 Koursed Dertition A			0.04.40	
10.12 Keypad Partition As	ssignment: Progr	am Addresses (313)	9-3146)	
Program Address 3139 Progr	ram Address 3140	Program Address 3141	Program Address 3142	Colort Oution DD
Data Digit 1 Data Digit 2 Data	Digit 1 Data Digit 2	Data Digit 1 Data Digit 2	Data Digit 1 Data Digit 2	Belongs to Partition 1
				Belongs to Partition 2 1
Keypad 1 Keypad 2 Keypa	ad 3 Keypad 4	Keypad 5 Keypad 6	Keypad 7 Keypad 8	Belongs to Partition 3 2
Program Address 3143 Progr	ram Address 3144	Program Address 3145	Program Address 3146	Belongs to Partition 4 3
Data Digit 1 Data Digit 2 Data	Digit 1 Data Digit 2	Data Digit 1 Data Digit 2	Data Digit 1 Data Digit 2	Belongs to Partition 5 4
			0	Belongs to Partition 7 6
Keypad 9 Keypad 10 Keypa	ad 11 Keypad 12	Keypad 13 Keypad 14	Keypad 15 Must Be 0	Belongs to Partition 8 7
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See Glossary (section 6.8) for further details.

					En	ter	the	Da	ita I	Digi	it a:	s a:						
Select Options	0	1	2	3	4	5	6	7	8	9	*0	*1	*2	*3	*4	*5	; —	I.
Bypass Zone Function 1		\bullet				•		\bullet		۲		ullet		ullet		•		
Bypass Zone Function 2			\bullet	•			ullet	•			۲	\bullet			•	•		
Bypass Zone Function 3						۲	ullet	۲					۲	ullet	•	•		
Bypass Zone Function 4									\bullet	٠	ullet	\bullet	•	\bullet	۲	•		
*0 - *	5 are	Hex	valu	es.	They	will	disp	lay a	s A -	F at	the	keyp	ads				_	
								Ent	er t	he	Dat	ta D	Digi	t as	a:			
Select Optio	ns		0	1	2	3	4	5	6	7	8	9	*0	*1	*2	*3	*4	*5 —
Bypass Zone Funct	ion (5		•				•		•		•		\bullet				•
Bypass Zone Funct	ion (6			ullet	•				•			•	ullet			ullet	•
Bypass Zone Funct	ion :	7					•	•	•	•							ullet	•
		0										-	-		•			
Bypass Zone Funct	ion a	D															•	
Bypass Zone Funct	10N 8	o - *5	are I	Hex	value	əs. T	hey	will c	lispla	ay as	- A	F at f	● the ŀ	eypa	• ads.		•	

12

Enter the Data Digit as a	A 2726
Select Options 0 1 2 3 4 5 6 7 8 9 *0 *1 *2 *3 *4 *5	ata Digit 1 2
Bypass Zone Function 9	
Bypass Zone Function 10	
Bypass Zone Function 11	` î
Bypass Zone Function 12	
*0 - *5 are Hex values. They will display as A - F at the keypads.	
Enter the Data Digit as a:	
Select Options 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5	
Bypass Zone Function 13	
Bypass Zone Function 14	
Bypass Zone Function 15	
Bypass Zone Function 16	
*0 - *5 are Hex values. They will display as A - F at the keypads.	
Enter the Data Digit as a	A 2727
D D	ata Digit
Bypass Zone Function 17	
Bypass Zone Function 18	
Bypass Zone Function 19	` ↑
Bypass Zone Function 20	
*0 - *5 are Hex values. They will display as A - F at the keypads.	
Enter the Data Digit as a	
Select Options 0 1 2 3 4 5 6 7 8 9 *0 *1 *2 *3 *4 *5	
Bypass Zone Function 21	
Bypass Zone Function 22	
Bypass Zone Function 23	
Bypass Zone Function 24	
*0 - *5 are Hex values. They will display as A - F at the keypads.	
Enter the Data Digit as a:	A 2728
Select Options 0 1 2 3 4 5 6 7 8 9 *0 *1 *2 *3 *4 *5	ata Digit
Bypass Zone Function 25	╵╴╴
Bypass Zone Function 26	
Bypass Zone Function 27	` ↑
Bypass Zone Function 28	
*0 - *5 are Hex values. They will display as A - F at the keypads.	
Data Digit as a:	
Select Options 0 1 2 3	
Bypass Zone Function 29	
Bypass Zone Function 30	
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10.15 Force Arming and Ground Fault Detect Programming: Program Address (2732)

Force Arming programming defines how many zones may be Force Armed using an Arming sequence followed by the [Bypass] key. With this entry, all violated zones (up the programmed limit) will automatically be Force Armed (bypassed). Ground Fault Detect programming determines whether or not the control will detect a ground fault condition. **See Glossary (sections 6.9 and 6.10) for further details.**



Ground Fault Detect On

Note: This limit does not apply when arming with a keyswitch programmed with force arming enabled.

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10.16 Commercial Fire Mode Programming: Program Address (2733) This section describes how to define the parameters for the Commercial Fire Mode. Data Digit See Glossary (section 6.11) for further details. 1 2 Enter the Data Digit as a: Select Options 0 1 2 3 4 5 6 7 8 9 *0 *1 *2 Commercial Fire Mode disabled 0 Local Comm, Fire Mode enabled • Central Station Comm, Fire Mode enabled 10 sec. delay on waterflow zone 20 sec. delay on waterflow zone 0 30 sec. delay on waterflow zone 40 sec. delay on waterflow zone 50 sec. delay on waterflow zone 0 *0 - *2 are Hex values. They will display as A - C at the keypads. Zones 1-4 may only have waterflow delays. Enter the DD as a: Select Options 5 0 1 2 3 4 Bell and Aux. activate on Fire Bell and Aux. activate on Burg Pulsing Fire Alarms are 1 sec. On / 1 sec. Off Pulsing Fire Alarms use California March Time

When programming Fire zones, it is recommended that they be zone functions 12 and 13 (see sections 10.2, 10.4 and 10.16.3).

Pulsing Fire Alarms use Temporal Cadence

10.16.1 When Central Station Commercial Fire Mode is chosen, address 4021 (DS7420i: Dual Phone Line/Bell Supervision Module Output Programming), will be forced to a value of 5.

10.16.2 When Local Commercial Fire Mode is chosen, address 4021 (DS7420i: Dual Phone Line/Bell Supervision Module Output Programming), will be forced to a value of 3, 4, or 5. (Turns the Bell Monitor feature ON and the Alarm Output on Line Fault feature OFF)

10.16.3 Regardless of which Commercial Fire Mode is chosen, the following parameters will be forced when exiting local programmer's mode:

- Zone Function 12, address 0012, will be a 7 *0. (Alarm on Short, Trouble on Open, Pulsing Fire with verification)
- Zone Function 13, address 0013, will be a 7 *1. (Alarm on Short, Trouble on Open, Pulsing Fire without verification)
- Zone Function 14, address 0014, will be a 7 *2. (Alarm on Short, Trouble on Open, Pulsing Water Flow)
- Zone Function 15, address 0015, will be a 7 *3. (Alarm on Short, Trouble on Open, Pulsing Supervisory)
- Zone Bypass address 2722 will not allow zone functions 12 15 to be bypassed.
- Emergency Key, address 3147, data digit 1, will become a 3 if programmed previously as a 2. Data digit 2 will become a 2 if programmed previously as a 3.
- Panic Key, address 3148, data digit 1, will become a 2 if programmed previously as a 3.
- Fire Bell Cutoff, address 4032: If less than 5, set to 5, otherwise untouched.
- The AC Fail Report delay will be random between 6-12 hours regardless of the delay time programmed in 4034. Also, the AC Fail Report will not be sent as a "tag-along."

10.16.4 In Central Station Commercial Fire Mode, the following communication parameters will be forced:

Report Codes: If 0, the following defaults will be set, otherwise they will be unchanged.

Address	Default	Address	Default	Address	Default	Address	Default	Address	Default
3207	*0 1	3223	*0 6	3336	69	3337	79	3342	6 *5
3208	71	3252	73	3282	63	3338	6 *0	3345	39
3220	*0 3	3253	74	3283	64	3339	7 *0	3346	3 *0
3221	*0 4	3254	75	3284	65	3340	83	3347	39
3222	*0 5	3255	76	3285	66	3341	7 *5		
		0.450) 14.0		· · · · · · · · · · · · · · · · · · ·					

• Phone Control (address 3156): If 0, set to 6 1, 4/2 @ 18/23, 10pps, otherwise untouched.

• Test Report (address 4026): Set to 8, call out every day.

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10.17 Open/Close Report Control Programming: Program Address (3149) Data Digit See Glossary (section 6.12) for further details. 2 Enter the Data Digit as a: **Select Options** 1 2 3 4 5 6 7 8 9 0 Do not report opens or closes Report opens and closes in Partition 1 Send Closing and 0 0 0 0 0 0 Bypass reports at close Report opens and closes in Partition 2 • 0 Send Closing and Report opens and closes in Partition 3 0 Bypass reports after 1 exit delay Report opens and closes in Partition 4 -Report opens and closes in Partition 5 Data Digit Report opens and closes in Partition 6 1 2 Report opens and closes in Partition 7 **A** 0 Report opens and closes in Partition 8 Report first Partition to open and last Partition to close** ** = When using this option, all partitions should have the same account code. 10.18 Open/Close & Zone Report Control Programming: Program Address (3151) This section allows you to decide which phone number will send open and close reports, zone alarm, zone restoral, and zone trouble reports. Data Digit Select Option DD 1 2 Alternate between both Phone Numbers 0 Report to Phone Number 1 1 Data Digit 1 is Data Digit 2 for Open and is for Zone Alarm, Report to Phone Number 2 2 Close Reports. Zone Restoral, Report to Phone Number 1 and 2 3 Zone Trouble. Bypass, Unbypass, and Trouble **Restoral Reports** Select Option DD Alternate between both Phone Numbers 0 Report to Phone Number 1 1 2 Report to Phone Number 2 3 Report to Phone Number 1 and 2 10.19 Report Control Programming: Program Address (3152) This section allows you to decide which phone number will send reports other than open/close reports and zone reports. Data Digit NOTE: Data Digit 1 does DD not include Open Select Option 1 2 Close and Alternate between both Phone Numbers 0 Reports or Zone Reports (see Report to Phone Number 1 1 sections 10.17







Partition 3

10.23 Arming Warning Programming: Program Addresses (3425-3428)

3

General Code can Arm

Arming Warning programming defines whether the keypad will be audible during the exit delay and auto arm period. If programmed, the keypad sounder will activate once every 5 seconds during the exit delay. At 10 seconds and 5 seconds remaining, the keypad sounder will activate 3 times. During auto arming, a pre-arming period will begin 15 minutes before the system arms automatically. The keypad sounders will pulse five times every minute. During the last five minutes before arming, these sounders will be on steady.

Partition 4

Partition 7

Partition 8



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10.24 DS7412 RS232 Interface Control Programming: Program Address (4019)

DS7412 RS232 Interface Control Programming allows you to enable or disable the DS7412 and to select which history events are sent to the printer as they occur. Selecting "No Events" will cause the history to be printed only on command.

To print the History Buffer starting from the most recent event, enter the Master Code followed by [#] [0] [8]. To stop printing, enter Master Code [#] [0] [8] again.



10.25 DS7412 RS232 Interface Configuration Programming: Program Address (4020)

DS7412 RS232 Interface Configuration Programming allows you to configure the DS7412 for your printer. Most printers will operate using the default values for the DS7412. Some printers may operate more efficiently using optional program values.

Consult the operating guide provided with your printer to be sure that its configuration matches the one programmed here.

NOTE: If using the WDSRP Direct Connection option for programming, Address 4019 must be set for 1 0. Address 4020 must be set for 2 5.

Select Option	DD	
300 Baud	0	
1200 Baud	1	
2400 Baud	2	-
4800 Baud	3	
9600 Baud	4	
14400 Baud	5	

							<u></u>		
							_		
	En	ter	the	Da	ta I	Digi	t as	s a:	
Select Options	0	1	2	3	4	5	6	7	
No Parity		\bullet							
ODD Parity									
EVEN Parity								ullet	
Software Flow Control									
Hardware Flow Control								ullet	
1 Stop Bit								ullet	
2 Stop Bits									
8 Data Bits								ullet	

Data Digit

10.26 RS232 Carriage Return/Line Feed Control: Program Address (4027)

The RS232 Carriage Return/Line Feed (CR/LF) Control allows you to choose between sending carriage returns/line feeds or spaces to the DS7412 module. This is only used when Program Address 4019 Data Digit #2 is programmed with the numbers 1 through 7.



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10.27 Report Programming: Program Addresses (3207-3419)

- To send the User number along with open, close, or partial close reports: place an 'F' (*5) in the extended digit.
- To disable a report (meaning that nothing will be sent), place a '0' in the reporting digit.
- When using SIA or Contact ID format, place a '1' in the reporting digit of each report you wish to enable. It is not necessary to program the extended digit.
- For suggested values for 4/2, BFSK and Pager format, see section 12.1-12.3. For SIA and Contact ID, the values sent are listed in sections 13.1 and 13.2. For other formats, consult your central station.
- HEX values: Some Data Digit values are higher than 9. These values are programmed by pressing the [*] key followed by another number. These values will display as HEX characters when entered. The HEX character values are as follows:
 *0 = A *1 = B *2 = C *3 = D *4 = E *5 = F

See Glossary (section 6.13) for further details.

	Default I					Default						
Report	Address	ļ	Reporting Digit 1	Extended Digit 2		Report	Address		Reporting Digit 1	Extended Digit 2		
Keypad Fire Alarm	3207	00				Zone Funct. 7 Restoral	3247	00				
Keypad Fire Restoral	3208	00				Zone Funct. 8 Restoral	3248	00				
Zone Funct. 1 Alarm	3209	10				Zone Funct. 9 Restoral	3249	00				
Zone Funct. 2 Alarm	3210	20				Zone Funct. 10 Restoral	3250	00				
Zone Funct. 3 Alarm	3211	30				Zone Funct. 11 Restoral	3251	00				
Zone Funct. 4 Alarm	3212	40				Zone Funct. 12 Restoral	3252	00				
Zone Funct. 5 Alarm	3213	50				Zone Funct. 13 Restoral	3253	00				
Zone Funct. 6 Alarm	3214	60				Zone Funct. 14 Restoral	3254	00				
Zone Funct. 7 Alarm	3215	70				Zone Funct. 15 Restoral	3255	00				
Zone Funct. 8 Alarm	3216	80				Zone Funct. 16 Restoral	3256	00				
Zone Funct. 9 Alarm	3217	00				Zone Funct. 17 Restoral	3257	00				
Zone Funct. 10 Alarm	3218	00				Zone Funct. 18 Restoral	3258	00				
Zone Funct. 11 Alarm	3219	00				Zone Funct. 19 Restoral	3259	00				
Zone Funct. 12 Alarm	3220	00				Zone Funct. 20 Restoral	3260	00				
Zone Funct. 13 Alarm	3221	00				Zone Funct. 21 Restoral	3261	00				
Zone Funct. 14 Alarm	3222	00				Zone Funct. 22 Restoral	3262	00				
Zone Funct. 15 Alarm	3223	00				Zone Funct. 23 Restoral	3263	00				
Zone Funct. 16 Alarm	3224	00				Zone Funct. 24 Restoral	3264	00				
Zone Funct. 17 Alarm	3225	00				Zone Funct. 25 Restoral	3265	00				
Zone Funct. 18 Alarm	3226	00				Zone Funct. 26 Restoral	3266	00				
Zone Funct. 19 Alarm	3227	00				Zone Funct. 27 Restoral	3267	00				
Zone Funct. 20 Alarm	3228	00				Zone Funct. 28 Restoral	3268	00				
Zone Funct. 21 Alarm	3229	00				Zone Funct. 29 Restoral	3269	00				
Zone Funct. 22 Alarm	3230	00				Zone Funct. 30 Restoral	3270	00				
Zone Funct. 23 Alarm	3231	00				Zone Funct. 1 Trouble	3271	00				
Zone Funct. 24 Alarm	3232	00				Zone Funct. 2 Trouble	3272	00				
Zone Funct. 25 Alarm	3233	00				Zone Funct. 3 Trouble	3273	00				
Zone Funct. 26 Alarm	3234	00				Zone Funct. 4 Trouble	3274	00				
Zone Funct. 27 Alarm	3235	00				Zone Funct. 5 Trouble	3275	00				
Zone Funct. 28 Alarm	3236	00				Zone Funct. 6 Trouble	3276	00				
Zone Funct. 29 Alarm	3237	00				Zone Funct. 7 Trouble	3277	00				
Zone Funct. 30 Alarm	3238	00				Zone Funct. 8 Trouble	3278	00				
Keypad Emergency	3239	00				Zone Funct. 9 Trouble	3279	00				
Keypad Panic	3240	00				Zone Funct. 10 Trouble	3280	00				
Zone Funct. 1 Restoral	3241	00				Zone Funct. 11 Trouble	3281	00				
Zone Funct. 2 Restoral	3242	00			1	Zone Funct. 12 Trouble	3282	00				
Zone Funct. 3 Restoral	3243	00			1	Zone Funct. 13 Trouble	3283	00				
Zone Funct. 4 Restoral	3244	00			1	Zone Funct, 14 Trouble	3284	00				
Zone Funct. 5 Restoral	3245	00			1	Zone Funct. 15 Trouble	3285	00				
Zone Funct. 6 Restoral	3246	00			1	Zone Funct. 16 Trouble	3286	00				
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Report Programming (Continued)

	Default							
			Poporting	Extended				
Report	Address		Digit 1	Digit 2				
Zone Funct 17 Trouble	3287	00						
Zone Funct, 18 Trouble	3288	00						
Zone Funct 19 Trouble	3289	00						
Zone Funct 20 Trouble	3290	00						
Zone Funct 21 Trouble	3291	00						
Zone Funct 22 Trouble	3207	00						
Zone Funct 23 Trouble	3202	00						
Zone Funct 24 Trouble	3200	00						
Zone Funct 25 Trouble	3205	00						
Zone Funct. 25 Trouble	3295	00						
Zone Funct. 28 Trouble	2207	00						
Zone Funct, 27 Trouble	3297	00						
Zone Funct. 28 Trouble	3290	00						
Zone Funct. 29 Trouble	3299	00						
Zone Funct 30 Trouble	3300	00						
Zone Funct 1 Trouble Restoral	3301	00						
Zone Funct. 2 Trouble Restoral	3302	00						
Zone Funct. 3 Trouble Restoral	3303	00						
Zone Funct. 4 Trouble Restoral	3304	00						
Zone Funct. 5 Trouble Restoral	3305	00						
Zone Funct. 6 Trouble Restoral	3306	00						
Zone Funct. 7 Trouble Restoral	3307	00						
Zone Funct. 8 Trouble Restoral	3308	00						
Zone Funct. 9 Trouble Restoral	3309	00						
Zone Funct. 10 Trouble Restoral	3310	00						
Zone Funct. 11 Trouble Restoral	3311	00						
Zone Funct. 12 Trouble Restoral	3312	00						
Zone Funct. 13 Trouble Restoral	3313	00						
Zone Funct. 14 Trouble Restoral	3314	00						
Zone Funct. 15 Trouble Restoral	3315	00						
Zone Funct. 16 Trouble Restoral	3316	00						
Zone Funct. 17 Trouble Restoral	3317	00						
Zone Funct. 18 Trouble Restoral	3318	00						
Zone Funct 19 Trouble Restoral	3319	00						
Zone Funct 20 Trouble Restoral	3320	00						
Zone Funct 21 Trouble Restoral	3321	00						
Zone Funct 22 Trouble Restoral	3322	00						
Zone Funct 23 Trouble Restoral	3322	00						
Zone Funct 2/ Trouble Restoral	3324	00						
Zone Funct 25 Trouble Restoral	3325	00						
Zone Fundt 26 Trouble Restoral	2226	00						
Zone Funct. 20 Trouble Restoral	3320	00						
Zone Funct 27 Trouble Restoral	3327	00						
Zone Funct. 28 Trouble Restoral	3328	00						
Zone Funct 29 Trouble Restoral	3329	00						
Zone Funct. 30 Trouble Restoral	3330	00						
Open	3331	00						
Close	3332	00						
Duress	3333	00						
Partial Close	3334	00						
		00						
First Open After Alarm	3335	00						

ReportAddressReporting Extended Digit 1Digit 2Low Battery Restoral333700000AC Failure3338000000AC Restoral3339000000Comm. Test/System Normal3340000000Remote Program Successful334100000Local Program Unsuccessful3342000000Local Program Unsuccessful3344000000System Trouble33450000000System Trouble Restoral3346000000System Trouble Restoral3347000000Exit Error3348000000System Walk Test3350000000System Walk Test Restoral3353000000Fire Walk Test Restoral3353000000Low Temperature3354000000Low Temperature Restoral3355000000Dirty Smoke Chamber3360000000Zone Funct. 1 Bypass3360000000Zone Funct. 5 Bypass3366000000Zone Funct. 13 Bypass3367000000
Low Battery Restoral 3337 00 00 AC Failure 3338 00 00 AC Restoral 3339 00 00 Comm. Test/System Normal 3340 00 00 Remote Program Successful 3341 00 00 Local Program Successful 3343 00 00 Local Program Unsuccessful 3344 00 00 System Trouble 3345 00 00 System Trouble Restoral 3346 00 00 Comm Test/System Off Nom 3347 00 00 Exit Error 3348 00 00 00 System Walk Test 3350 00 00 00 System Walk Test 3353 00 00 00 00 Fire Walk Test Restoral 3353 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
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Fire Walk Test Restoral 3353 00 Image: constraint of the state of the st
Low Temperature 3354 00 Image: matrix and transform of transf
Low Temperature Restoral33550000Dirty Smoke Chamber33560000Dirty Chamber Restoral33570000Zone Funct. 1 Bypass33580000Zone Funct. 2 Bypass33590000Zone Funct. 3 Bypass33600000Zone Funct. 4 Bypass33610000Zone Funct. 5 Bypass33620000Zone Funct. 6 Bypass33630000Zone Funct. 7 Bypass33630000Zone Funct. 8 Bypass33650000Zone Funct. 10 Bypass33660000Zone Funct. 11 Bypass33680000Zone Funct. 12 Bypass33690000Zone Funct. 13 Bypass33700000Zone Funct. 14 Bypass33710000Zone Funct. 15 Bypass33720000
Dirty Smoke Chamber33560000Dirty Chamber Restoral33570000Zone Funct. 1 Bypass33580000Zone Funct. 2 Bypass33590000Zone Funct. 3 Bypass33600000Zone Funct. 4 Bypass33610000Zone Funct. 5 Bypass33620000Zone Funct. 6 Bypass33630000Zone Funct. 7 Bypass33640000Zone Funct. 8 Bypass33650000Zone Funct. 10 Bypass33660000Zone Funct. 11 Bypass33680000Zone Funct. 12 Bypass33690000Zone Funct. 13 Bypass33700000Zone Funct. 14 Bypass33710000Zone Funct. 15 Bypass33720000
Dirty Chamber Restoral 3357 00 Image: Marcine Stress Zone Funct. 1 Bypass 3358 00 Image: Marcine Stress Image: Ma
Zone Funct. 1 Bypass 3358 00 Image: style st
Zone Funct. 2 Bypass 3359 00 Image: constraint of the synapsis Zone Funct. 3 Bypass 3360 00 Image: constraint of the synapsis Zone Funct. 4 Bypass 3361 00 Image: constraint of the synapsis Zone Funct. 5 Bypass 3362 00 Image: constraint of the synapsis Zone Funct. 6 Bypass 3363 00 Image: constraint of the synapsis Zone Funct. 7 Bypass 3364 00 Image: constraint of the synapsis Zone Funct. 8 Bypass 3365 00 Image: constraint of the synapsis Zone Funct. 9 Bypass 3366 00 Image: constraint of the synapsis Zone Funct. 10 Bypass 3367 00 Image: constraint of the synapsis Zone Funct. 11 Bypass 3368 00 Image: constraint of the synapsis Zone Funct. 12 Bypass 3370 00 Image: constraint of the synapsis Zone Funct. 14 Bypass 3371 00 Image: constraint of the synapsis Zone Funct. 15 Bypass 3372 00 Image: constraint of the synapsis Zone Funct. 16 Bypass 3373 00 Image: constraint of the synapsis
Zone Funct. 3 Bypass 3360 00 Zone Funct. 4 Bypass 3361 00 Zone Funct. 5 Bypass 3362 00 Zone Funct. 6 Bypass 3363 00 Zone Funct. 7 Bypass 3364 00 Zone Funct. 8 Bypass 3365 00 Zone Funct. 9 Bypass 3366 00 Zone Funct. 10 Bypass 3367 00 Zone Funct. 11 Bypass 3368 00 Zone Funct. 12 Bypass 3369 00 Zone Funct. 13 Bypass 3371 00 Zone Funct. 14 Bypass 3372 00
Zone Funct. 4 Bypass 3361 00 Image: constraint of the synapsis of the synapsynapsis of the synapsynapsis of the synapsis of the sy
Zone Funct. 5 Bypass33620000Zone Funct. 6 Bypass33630000Zone Funct. 7 Bypass33640000Zone Funct. 8 Bypass33650000Zone Funct. 9 Bypass33660000Zone Funct. 10 Bypass33670000Zone Funct. 11 Bypass33680000Zone Funct. 12 Bypass33690000Zone Funct. 13 Bypass33700000Zone Funct. 14 Bypass33710000Zone Funct. 15 Bypass33720000
Zone Funct. 6 Bypass 3363 00 Image: constraint of the synapsis of the synapsynapsis of the synapsynapsis of the synapsis of the sy
Zone Funct. 7 Bypass 3364 00 Image: Constraint of the synthesis of the synthesynteme teachedistributee synthesynthesis of the synthesy
Zone Funct. 8 Bypass 3365 00 Image: Constraint of the system Zone Funct. 9 Bypass 3366 00 Image: Constraint of the system Zone Funct. 10 Bypass 3367 00 Image: Constraint of the system Zone Funct. 11 Bypass 3368 00 Image: Constraint of the system Zone Funct. 12 Bypass 3369 00 Image: Constraint of the system Zone Funct. 13 Bypass 3370 00 Image: Constraint of the system Zone Funct. 14 Bypass 3371 00 Image: Constraint of the system Zone Funct. 15 Bypass 3372 00 Image: Constraint of the system Zone Funct. 16 Bypass 3373 00 Image: Constraint of the system
Zone Funct. 9 Bypass 3366 00 Image: Constraint of the synapsis of the synapsynapsis of the synapsynapsis of the synapsynapsynapsis
Zone Funct. 10 Bypass 3367 00 Image: Constraint of the system Zone Funct. 11 Bypass 3368 00 Image: Constraint of the system Zone Funct. 12 Bypass 3369 00 Image: Constraint of the system Zone Funct. 13 Bypass 3370 00 Image: Constraint of the system Zone Funct. 14 Bypass 3371 00 Image: Constraint of the system Zone Funct. 15 Bypass 3372 00 Image: Constraint of the system Zone Funct. 16 Bypass 3373 00 Image: Constraint of the system
Zone Funct. 11 Bypass 3368 00 Image: Constraint of the system Zone Funct. 12 Bypass 3369 00 Image: Constraint of the system Zone Funct. 13 Bypass 3370 00 Image: Constraint of the system Zone Funct. 14 Bypass 3371 00 Image: Constraint of the system Zone Funct. 15 Bypass 3372 00 Image: Constraint of the system Zone Funct. 16 Bypass 3373 00 Image: Constraint of the system
Zone Funct. 12 Bypass 3369 00 Zone Funct. 13 Bypass 3370 00 Zone Funct. 14 Bypass 3371 00 Zone Funct. 15 Bypass 3372 00 Zone Funct. 16 Bypass 3373 00
Zone Funct. 13 Bypass 3370 00 Zone Funct. 14 Bypass 3371 00 Zone Funct. 15 Bypass 3372 00 Zone Funct. 16 Bypass 3373 00
Zone Funct. 14 Bypass337100Zone Funct. 15 Bypass337200Zone Funct. 16 Bypass337300
Zone Funct. 15 Bypass 3372 00 Zone Funct. 16 Bypass 3373 00
Zone Funct 16 Bynass 3373 00
Zone Funct. 17 Bypass 3374 00
Zone Funct. 18 Bypass 3375 00
Zone Funct. 19 Bypass 3376 00
Zone Funct 20 Bypass 3377 00
Zone Funct. 21 Bypass 3378 00
Zone Funct. 22 Bypass 3379 00
Zone Funct. 23 Bypass 3380 00
Zone Funct. 24 Bypass 3381 00
Zone Funct. 25 Bypass 3382 00
Zone Funct. 26 Bypass 3383 00
Zone Funct. 27 Bypass 3384 00
Zone Funct. 28 Bypass 3385 00
Zone Funct. 29 Bypass 3386 00

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Report Programming (Co	ntinued)										
	0	Defau	ult			Default					
Report	Address Reporting Extended			Report	Address	ļ	Reporting Digit 1	Extende Digit 2			
Zone Funct. 30 Bypass	3387	00			Ī	Zone Funct. 16 Bypass Restore	3403	00			
Zone Funct. 1 Bypass Restore	3388	00			Ī	Zone Funct. 17 Bypass Restore	3404	00			
Zone Funct. 2 Bypass Restore	3389	00				Zone Funct. 18 Bypass Restore	3405	00			
Zone Funct. 3 Bypass Restore	3390	00				Zone Funct. 19 Bypass Restore	3406	00			
Zone Funct. 4 Bypass Restore	3391	00				Zone Funct. 20 Bypass Restore	3407	00			
Zone Funct. 5 Bypass Restore	3392	00			Ī	Zone Funct. 21 Bypass Restore	3408	00			
Zone Funct. 6 Bypass Restore	3393	00				Zone Funct. 22 Bypass Restore	3409	00			
Zone Funct. 7 Bypass Restore	3394	00			ľ	Zone Funct. 23 Bypass Restore	3410	00			
Zone Funct. 8 Bypass Restore	3395	00				Zone Funct. 24 Bypass Restore	3411	00			
Zone Funct. 9 Bypass Restore	3396	00				Zone Funct. 25 Bypass Restore	3412	00			
Zone Funct. 10 Bypass Restore	3397	00				Zone Funct. 26 Bypass Restore	3413	00			
Zone Funct. 11 Bypass Restore	3398	00				Zone Funct. 27 Bypass Restore	3414	00			
Zone Funct. 12 Bypass Restore	3399	00				Zone Funct. 28 Bypass Restore	3415	00			
Zone Funct. 13 Bypass Restore	3400	00				Zone Funct. 29 Bypass Restore	3416	00			
Zone Funct. 14 Bypass Restore	3401	00			Ĩ	Zone Funct. 30 Bypass Restore	3417	00			
Zone Funct. 15 Bypass Restore	3402	00				Keypad Tamper	3418	00			
	1	I	1		Ì	Keypad Tamper Restoral	3419	00			

10.28 Phone/DS7416i Routing Control: Program Addresses (3153-3154)

If address 3155 is programmed to "Try DS7416i first", the following addresses can be used to control report routing. If address 3155 is set to "Send alarms via both DS7416i and digital", this will force alarms to go to the phone even if the Phone/DS7416i report routing for alarms does not specify phone usage.



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10.29 Account Code Programming: Program Addresses (3429-3459)

Account Code programming defines the number transmitted to the central station that identifies this panel. It also identifies which partition is reporting from this panel.

			Data Digits
	Ι	1	2 3 4
Partition 1	Phone #1 Account Code = Address 3429		
	Phone #2 Account Code = Address 3431		
	Phone #1 Account Code = Address 3433		
Partition 2	Phone #2 Account Code = Address 3435		
	Dhana #1 Assount Code = Address 2427		
Partition 3	Phone #1 Account Code = Address 3437		
	Phone #2 Account Code – Address 3439		
Partition 4	Phone #1 Account Code = Address 3441		
	Phone #2 Account Code = Address 3443		
	Phone #1 Account Code = Address 3445		
Partition 5	Phone #2 Account Code = Address 3447		
	Phone #1 Account Code = Address 2440		
Partition 6	Phone #1 Account Code = Address 3449		
	Filone #2 Account Code – Address 3431		
Partition 7	Phone #1 Account Code = Address 3453		
	Phone #2 Account Code = Address 3455		
Deutition 9	Phone #1 Account Code = Address 3457		
Partition o	Phone #2 Account Code = Address 3459		
		,	
		Δα	count Codes = 0000
	NOTES		
1 Associat Codes are		unt Carla tha faunth d	init of the oddroop must be "O"
For example: If th	e Account Code is 121, program 1210 in the programming a	ddress.	igit of the address must be 0.
2. If you wish to send	a zero "0," enter it as *0 (this does not apply to the added zer	ro in a three digit Acco	ount Code).
For example: If th	e Account Code is 101, program 1*010 in the programming ac	ddress. If the Account	Code is 3050, program 3*05*0

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10.30 Phone Number General Control Programming: Program Address (3155) See Glossary (section 6.14) for further details.



10.31 Phone Number Format Programming: Program Addresses (3156-3157)

									NOTE:	Phone Number 1 Format = Address
Colort Oution	DD							Data	Digit 2	Phone Number 2 Format = Address 3157
Phone Number Disabled	0						→[When using the DS7416i Advanced Radio Communications Module:
3/1 (no Extended Reporting)	1								1	Program address 3156 as:
3/1E (Extended Reporting)	2			Fn	ter	the	DF	asa		data digit $1 = 9$, data digit $2 = 1$.
3/1 with Parity	3		Salast Options	•	4	2	2	4 5		Program address 3157 as:
3/1E with Parity	4	\mathbf{H}	Select Options	U	1	Z	3	4 C) -' 	data digit 1 = 9, data digit 2 = 1.
4/1	5		1900 Hz. Data/1400 Hz. Acknowledge					\bullet		
4/0	6		1800 Hz. Data/2300 Hz. Acknowledge				ullet			
4/2	0		BFSK, SIA, Contact ID							
BFSK	7		10 Dulace per Second (DDS)						_	
SIA 110 Baud	8	\vdash	To Pulses per Second (PPS)							
Contact ID	9		20 Pulses per Second (PPS)				\bullet			
	*0		40 Pulses per Second (PPS)							
SIA 300 Baud	0		*0 *2 and *5 are Hey values. They will	dienl	av a	ς Δ () ar	dE		
Personal Dialing	*2		at the keypads.	uispi	uy u	<i>5 /</i> , •	J, ai	ui		
Pager	*5	\vdash								
		-								
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10.31.1 Compatible Receivers

The following table lists those Digital Alarm Communicator Receivers and Formats that are compatible with the DS7400Xi.

NOTE: Contact your central station regarding which format to use and if a special line card is required.

1	=	The	Form	nat ty	ype the	DS7400X
sι	ipp	orts	and	the	Digital	Alarm
С	om	mur	nicato	or Ro	eceiver	accepts.

Dessivers and Essents that				Fo	orm	at			
r Receivers and Formats that									
t to use and if a special line card		E (Extended)	w/Parity	E w/Parity			SK	ntact ID	T
Receiver	3/1	3/1	3/1	3/1	4/1	4/2	ΒF	ပိ	SI/
ADEMCO: Model 685		\bullet	\bullet		\bullet	\bullet	\bullet	\bullet	
F.B.I.: Model CP-220		ullet	lacksquare			lacksquare	lacksquare	\bullet	
I.T.I.: Model CS-4000						ullet	lacksquare		
Osborne-Hoffman: Model II		lacksquare	lacksquare			lacksquare	lacksquare	\bullet	ullet
Radionics: Model 6000		lacksquare	lacksquare				lacksquare		
Radionics: Model 6500		lacksquare	lacksquare			\bullet	\bullet		
Radionics: Model 6600		ullet	ullet			\bullet	\bullet	\bullet	ullet
Silent Knight: Model 9000						\bullet	\bullet		ullet
Varitech: Model V-300						\bullet	\bullet		

10.32 Phone Answering Programming: Program Address (3158)

See Glossary (section 6.15) for further details.

Select Option		
When Armed:		
Don't Answer Phone	0	
Answer Phone on 1 ring**	1	
Answer Phone on 2 rings	2	
Answer Phone on 3 rings**	3	
Answer Phone on 4 rings	4	
Answer Phone on 5 rings**	5	
Answer Phone on 6 rings	6	-
Answer Phone on 7 rings**	7	
Answer Phone on 8 rings	8	
Answer Phone on 9 rings**	9	-
Answer Phone on 10 rings	*0	
Answer Phone on 11 rings**	*1	
Answer Phone on 12 rings	*2	
Answer Phone on 13 rings**	*3	_
Answer Phone on 14 rings	*4	
Answer Phone on 15 rings**	*5	

3-			Answer Fliur
er Phone on 12 rings	*2		Answer Phon
er Phone on 13 rings**	*3		Answer Phone
er Phone on 14 rings	*4		Answer Phon
er Phone on 15 rings**	*5		Answer Phone
*0 - *5 are Hex values.		_	Answer Phon
display as A - F at the ke	ypad	s.	

They will display as A - F at the keypads. ** = Overrides answering machine.

The Panel will answer on the first ring of the second call made within one minute.

Select Option		
When Disarmed:		
Don't Answer Phone	0	\square
Answer Phone on 1 ring**	1	\square
Answer Phone on 2 rings	2	\square
Answer Phone on 3 rings**	3	
Answer Phone on 4 rings	4	Н
Answer Phone on 5 rings**	5	Н
Answer Phone on 6 rings	6	Н
Answer Phone on 7 rings**	7	Н
Answer Phone on 8 rings	8	\square
Answer Phone on 9 rings**	9	\square
Answer Phone on 10 rings	*0	
Answer Phone on 11 rings**	*1	
Answer Phone on 12 rings	*2	Н
Answer Phone on 13 rings**	*3	H
Answer Phone on 14 rings	*4	\square
Answer Phone on 15 rings**	*5	μ

*0 - *5 are Hex values.

They will display as A - F at the keypads. ** = Overrides answering machine.

The Panel will answer on the first ring of the second call made within one minute.

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Data Digit

2

1

10.33 Pager Delay Time: Program Address (4038)

When using the Pager Dialing Format (selected in Addresses 3156 and 3157), you may insert a delay time after the phone number is dialed and before the reports are sent to the pager system. This delay can be used to allow for greeting and instruction messages in the pager system. This delay will not affect any other report formats.



10.34 Programmer's and Master Code Programming: Program Addresses (7589-7592)

Programmer's Code programming defines what the Programmer's Code will be. This code is used to enter the programming mode from the keypads.



Although the DS7400Xi (Ver. 4+) Control/Communicator is shipped with 6-digit codes preprogrammed, it is also shipped with a 4-digit PIN length default. The default codes for the Programmer's Code and the Master Code will be 4-digits (9876 and 1234 respectively) unless you have reprogrammed for a 6-digit PIN length.



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10.36 Octal Relay Module Output Programming

10.36.1 Follow Action: Program Addresses (2740-2771)

To program an Octal Relay Module for Follow Action, follow the steps below.

- 1. Select Octal Relay to program.
- 2. Program Data Digit 1 of Program Address A as 1 for Follow Action.
- 3. Program Data Digit 2 of Program Address A for the desired function.
- 4. Program Data Digit 1 and 2 of Program Address B for the desired function.

Once both Address A and Address B have been programmed, proceed to program the next Octal Relay.

The Octal Relay Module is the DS7488. See section 1.18 and 6.4 for further details.

NOTE: If a DS9484 is used, it replaces the DS7488 and takes up outputs 1-4 of the Octal Relay Module. Outputs 5-8 of the Octal Relay Module are unavailable. If two DS9484 power supplies are used, one replaces Octal Relay Module 1 and the other replaces Octal Relay Module 2.



For Octal Relay Partition Assignment, **see section 10.36.5.**



101	N D	D 2	
0	1	2	3
			۲
	0 0	ION D 0 1 • •	ON DD2 0 1 2 • • • • • •

Octal Relay #	DS7488-1 Address A	DS748 Addre B	88-1 955
1	2740	274	1
2	2742	274	3
3	2744	274	5
4	2746	274	7
5	2748	274	9
6	2750	275	1
7	2752	275	3
8	2754	275	5
9	2756	275	7
10	2758	275	9
11	2760	276	1
12	2762	276	3
13	2764	276	5
14	2766	276	7
15	2768	276	9
16	2770	277	1

Program Address B



		-
SELECT OPTION DD 1 & 2	DD	
Latch ON after Zone Alarm**	00	
ON during Entry Pre-Alert	01	
ON for 10 sec. after pressing [System Reset]	02	
ON for Any Armed state	03	
Ground Start	04	
System Status (Ready to Arm)	05	
Zone Alarm	06	
Zone Alarm delayed by 20 seconds	07	
Keypad Sounder Output	08	
Access Output (10 sec. pulse)	09	
Future Selection	0*0	
Panic/Duress Output***	0*1	
ON when System is Partial	0*2	
ON when System is Fully Armed	0*3	

** = This includes invisible zones. See glossary for further details. *** = See section 6.4 for description of this option.

10.36 Octal Relay Module Output Programming (continued)

10.36.2 Follow System Wide Event: Program Addresses (2740-2771)

- To program an Octal Relay Module for Follow System Wide Event, follow the steps below.
- 1. Select Octal Relay to program.
- 2. Program Data Digit 1 of Program Address A as 2 for Follow System Wide Event.
- 3. Program Data Digit 2 of Program Address A for the desired function.
- 4. Program Data Digit 1 and 2 of Program Address B for the desired function.

Once both Address A and Address B have been programmed, proceed to program the next Octal Relay.

For Octal Relay Partition As	ssignment, s e	ee section	10.36.5.	
Program Address A	Octal Relay	DS7488-1 Address	DS7488-1 Address	
Data Digit	#	A	В	
1 Ž	1	2740	2741	
2	2	2742	2743	
		0744	0745	

SELECT OPTION DD 2					
Follows	0	1	2	3	
Disabled	•				
Burglar Alarm				۲	
Fire Alarm			•		

Octal Relay #	DS7488-1 Address A	DS7488-1 Address B
1	2740	2741
2	2742	2743
3	2744	2745
4	2746	2747
5	2748	2749
6	2750	2751
7	2752	2753
8	2754	2755
9	2756	2757
10	2758	2759
11	2760	2761
12	2762	2763
13	2764	2765
14	2766	2767
15	2768	2769
16	2770	2771

Program Address B



SELECT OPTION DD 1 & 2	DD	
Disabled	00	—
AC Power Fail	01	
Low Battery	02	
Communicator Failure	03	
System Fault*	04	
Keypad Supervision Fault	05	
Multiplex Bus Fault	06	
RF Receiver Fault	07	
Aux Power Fault	8 0	
Fire Zone Trouble	09	
Supervisory	0*0	
Zone Trouble	0*1	
Duress	0*2	
Battery Test	0*3	
Future Selection	0*4	
Future Selection	0*5	

*System Faults include:

- RAM fault
- ROM fault
- Bell/Line Monitor fault (DS7420i)
- Line 1 fault
- Line 2 fault
- Bell fault
- Aux. Power fault
- Octal Relay fault
- Serial Module fault (DS7412)
- Serial Transmit fault
- Serial Receive fault
- Aux. Relay fault
- DS7416i Communication fault
- RF Receiver Tamper
- RF Receiver Jammed
- RF Receiver Trouble
- Printer Off-line

10.36 Octal Relay Module Output Programming (continued)

10.36.3 Follow Function: Program Addresses (2740-2771)

To program an Octal Relay Module for Follow Output Function, follow the steps below.

- 1. Select Octal Relay to program.
- 2. Program Data Digit 1 of Program Address A as ${\bf 3}$ for Follow Function.
- 3. Program Data Digit 2 of Program Address A for the desired function.
- 4. Program Data Digit 1 and 2 of Program Address B for the desired function.

Once both Address A and Address B have been programmed, proceed to program the next Octal Relay.

IMPORTAN'	г

Fire Alarm

For Octal Relay Partition Assignment, see section 10.36.5.



Octal Relay #	DS7488-1 Address A	DS7488- Address B
1	2740	2741
2	2742	2743
3	2744	2745
4	2746	2747
5	2748	2749
6	2750	2751
7	2752	2753
8	2754	2755
9	2756	2757
10	2758	2759
11	2760	2761
12	2762	2763
13	2764	2765
14	2766	2767
15	2768	2769
16	2770	2771



		_
SELECT OPTION DD 1 & 2	DD	
Disabled	00	Ь
Follow Output Function 1	01	
Follow Output Function 2	02	
Follow Output Function 3	03	
Follow Output Function 4	04	
Follow Output Function 5	05	
Follow Output Function 6	06	Н
Follow Output Function 7	07	
Follow Output Function 8	08	<u> </u>
Follow Output Function 9	09	Н
Follow Output Function 10	0 *0	Н
Follow Output Function 11	0 *1	Н
Follow Output Function 12	0 *2	Н
Follow Output Function 13	0 *3	Н
Follow Output Function 14	0 *4	Н
Follow Output Function 15	0 *5	Н
Follow Output Function 16	10	Н
Follow Output Function 17	11	Н
Follow Output Function 18	12	Н
Follow Output Function 19	13	Н
Follow Output Function 20	14	Н
Follow Output Function 21	15	Н
Follow Output Function 22	16	Н
Follow Output Function 23	17	Н
Follow Output Function 24	18	μ

10.36 Octal Relay Module Output Programming (continued)

10.36.4 Follow Zone: Program Addresses (2740-2771)

To program an Octal Relay Module for Follow Zone, follow the steps below.

- 1. Select Octal Relay to program.
- 2. Program Data Digit 1 of Program Address A as 4 for Follow Zone.
- 3. Program Data Digit 2 of Program Address A for the desired function.
- 4. Program Data Digit 1 and 2 of Program Address B for the desired zone.

Once both Address A and Address B have been programmed, proceed to program the next Octal Relay.





DS7488-1

Address

В

2741

2743

2745

2747

2749

2751

2753

2755

2757

2759

2761

2763

2765

2767

2769

2771

** = This applies only to the DS7465 outputs DS7488 outputs will not latch when this is selected.

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one	HEX _	Zone	HEX	Zone	HEX	Zone	HEX
1	01	33	21	65	41	97	61
2	02	34	22	66	42	98	62
3	03	36	23	68	<u> </u>	100	64
5	04	37	25	69	44	100	65
6	06	38	26	70	46	102	66
7	07	39	27	71	47	103	67
8	08	40	28	72	48	104	68
9	09	41	29	73	49	105	69
10	0*0	42	2*0	74	4*0	106	6*0
11	0*1	43	2*1	75	4*1	107	6*1
12	0*2	44	2*2	76	4*2	108	6*2
13	0*3	45	2*3	77	4*3	109	6*3
14	0*4	46	2*4	78	4*4	110	6*4
15	0*5	47	2*5	79	4*5	111	6*5
16	10	48	30	80	50	112	70
<u>17</u>	11	49	31	81	51	113	71
18	12	50	32	82	52	114	72
19	13	51	33	83	53	115	73
20	14	52	34	84	54	116	74
21	15	53	35	85	55	117	75
22	16	54	36	86	56	118	76
23	17	55	37	87	57	119	77
24	18	56	38	88	58	120	78
<u>25</u>	19	57	39	89	59	121	79
26	1*0	58	3*0	90	5*0	122	7*0
27	1*1	59	3*1	91	<u>5*1</u>	123	7*1
28	1*2	60	3*2	92	5*2	124	7*2
29	1*3	61	3*3	93	<u> </u>	125	7*3
30	1*4	62	3*4	94	5*4	126	7*4
31	1*5	63	3*5	95	5*5	127	7*5
20	20	04	40	00	00	400	~~~
32	20	64	40	96	60	128	80
32	20 HEX	64 Zone	40	96 Zone	60 HEX	128 Z one	80
32 one	20 HEX 81	64 Zone	40 HEX *01	96 Zone	60 HEX *21	128 Zone	80 HEX *41
32 one 29 30	20 HEX 81 82	64 Zone 161	40 HEX *01 *02	96 Zone 193 194	60 HEX *21 *22	128 Zone 225 226	80 HEX *41 *42
32 one 29 30 31	20 HEX 81 82 83	64 Zone 161 162	40 HEX *01 *02 *03	96 Zone 193 194	60 HEX *21 *22 *23	128 Zone 225 226 227	80 HEX *41 *42 *43
32 one 29 30 31 32	20 HEX 81 82 83 84	64 Zone 161 162 163 164	40 HEX *01 *02 *03 *04	96 Zone 193 194 195 196	60 HEX *21 *22 *23 *24	128 Zone 225 226 227 228	80 HEX *41 *42 *43 *44
one 29 30 31 32 33	20 HEX 81 82 83 83 84 85	64 Zone 161 162 163 164 165	40 HEX *01 *02 *03 *04 *05	96 Zone 193 194 195 196 197	60 HEX *21 *22 *23 *24 *24	128 Zone 225 226 227 228 229	80 HEX *41 *42 *43 *44 *45
32 32 32 30 31 32 33 33 34	20 HEX 81 82 83 84 85 86	64 Zone 161 162 163 164 165 166	40 HEX *01 *02 *03 *04 *05 *06	96 Zone 193 194 195 196 197 198	60 HEX *21 *22 *23 *24 *25 *26	128 Zone 225 226 227 228 229 230	80 HEX *41 *42 *43 *44 *45 *46
32 32 32 30 30 31 32 33 34 35	20 HEX 81 82 83 84 85 86 86 87	64 Zone 161 162 163 164 165 166 167	40 HEX *01 *02 *03 *04 *05 *06 *07	96 Zone 193 194 195 196 197 198 199	60 HEX *21 *22 *23 *24 *25 *26 *26	128 Zone 225 226 227 228 229 230 231	80 HEX *41 *42 *43 *44 *45 *46 *47
32 32 32 30 31 32 33 34 35 36	20 HEX 81 82 83 84 85 86 86 87 88	64 Zone 161 162 163 164 165 166 167 168	40 HEX *01 *02 *03 *04 *05 *06 *07 *08	96 Zone 193 194 195 196 197 198 199 200	60 HEX *21 *22 *23 *24 *25 *26 *27 *28	128 Zone 225 226 227 228 229 230 231 232	80 HEX *41 *42 *43 *44 *45 *46 *47 *48
32 32 32 30 31 32 33 34 35 36 37	20 HEX 81 82 83 84 85 86 86 87 88 88 88 88 89	64 Zone 161 162 163 164 165 166 167 168 169	40 HEX *01 *02 *03 *04 *05 *06 *07 *08 *09	96 Zone 193 194 195 196 197 198 199 200 201	60 HEX *21 *22 *23 *24 *25 *26 *27 *28 *29	128 Zone 225 226 227 228 229 230 231 232 233	80 HEX *41 *42 *43 *44 *45 *46 *47 *48 *49
32 32 33 30 31 32 33 34 35 36 37 38	20 HEX 81 82 83 84 85 86 85 86 87 88 88 89 8*0	64 Zone 161 162 163 164 165 166 167 168 169 170	40 HEX *01 *02 *03 *04 *05 *06 *07 *08 *09 *0*0	96 Zone 193 194 195 196 197 198 199 200 201 202	60 HEX *21 *22 *23 *24 *25 *26 *27 *28 *29 *29	128 225 226 227 228 229 230 231 232 233 234	80 HEX *41 *42 *43 *44 *45 *46 *47 *48 *49 *4*0
32 32 33 30 31 32 33 34 35 36 37 38 39	20 HEX 81 82 83 84 85 86 87 88 88 89 8*0 8*1	64 Zone 161 162 163 164 165 166 167 168 169 170 171	40 HEX *01 *02 *03 *04 *05 *06 *07 *08 *09 *09 *0*0 *0*1	96 Zone 193 194 195 196 197 198 199 200 201 202 203	60 HEX *21 *22 *23 *24 *25 *26 *27 *28 *29 *29 *2*0 *2*1	128 Zone 225 226 227 228 229 230 231 232 233 234 235	80 HEX *41 *42 *43 *44 *45 *46 *47 *48 *49 *4*0 *4*1
Signal 32 33 30 31 32 33 34 35 36 37 38 39 40	20 HEX 81 82 83 84 85 86 87 88 88 87 88 88 89 8*0 8*1 8*2	64 Zone 161 162 163 164 165 166 167 168 169 170 171	40 HEX *01 *02 *03 *04 *05 *06 *07 *08 *09 *09 *0*0 *0*1 *0*2	96 Zone 193 194 195 196 197 198 199 200 201 202 203 204	60 HEX *21 *22 *23 *24 *25 *26 *27 *28 *29 *2*0 *2*1 *2*2	128 225 226 227 228 229 230 231 232 233 234 235 236	80 HEX *41 *42 *43 *44 *45 *46 *47 *48 *49 *49 *4*0 *4*1 *4*2
Signal 32 33 30 31 32 33 34 35 36 37 38 39 40 41	20 HEX 81 82 83 84 85 86 87 88 88 87 88 88 89 8*0 8*1 8*2 8*3	64 Zone 161 162 163 164 165 166 167 168 169 170 171 172 173	40 HEX *01 *02 *03 *04 *05 *06 *07 *08 *09 *09 *0*0 *0*1 *0*2 *0*3	96 Zone 193 194 195 196 197 198 199 200 201 202 203 204 205	60 HEX *21 *22 *23 *24 *25 *26 *27 *28 *29 *2*0 *2*1 *2*2 *2*3	128 225 226 227 228 229 230 231 232 233 234 235 236 237	80 HEX *41 *42 *43 *44 *45 *46 *47 *48 *49 *47 *48 *49 *47 *48 *49 *47 *48 *49 *47 *48 *42 *43 *44 *45 *46 *47 *48 *47 *48 *47 *48 *49 *47 *47 *47 *48 *47 *47 *47 *48 *47 *47 *47 *47 *47 *47 *47 *47
Signal 32 32 30 31 32 33 34 35 36 37 38 39 40 41 42	20 HEX 81 82 83 84 85 86 87 88 87 88 89 8*0 8*1 8*2 8*3 8*4	64 Zone 161 162 163 164 165 166 167 168 169 170 171 172 173 174	40 HEX *01 *02 *03 *04 *05 *06 *07 *08 *09 *07 *08 *09 *0*0 *0*1 *0*2 *0*3 *0*4	96 Zone 193 194 195 196 197 198 199 200 201 202 203 204 205 206	60 HEX *21 *22 *23 *24 *25 *26 *27 *28 *29 *2*0 *2*1 *2*2 *2*3 *2*4	128 225 226 227 228 229 230 231 232 233 234 235 236 237 238	80 HEX *41 *42 *43 *44 *45 *46 *47 *48 *49 *49 *49 *4*0 *4*1 *4*2 *4*3 *4*A
Signal 32 33 30 31 32 33 34 35 36 37 38 39 40 41 42 43	20 HEX 81 82 83 84 85 86 87 88 87 88 88 89 8*0 8*1 8*2 8*3 8*4 8*5	64 Zone 161 162 163 164 165 166 167 168 169 170 171 172 173 174	40 HEX *01 *02 *03 *04 *05 *06 *07 *08 *09 *07 *08 *09 *0*0 *0*1 *0*2 *0*3 *0*4 *0*5	96 Zone 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207	60 HEX *21 *22 *23 *24 *25 *26 *27 *28 *29 *2*0 *2*1 *2*2 *2*3 *2*4 *2*5	128 225 226 227 228 229 230 231 232 233 234 235 234 235 236 237 238 239	80 HEX *41 *42 *43 *44 *45 *46 *47 *48 *49 *47 *48 *49 *47 *48 *49 *47 *48 *49 *44 *45 *46 *47 *48 *47 *47 *48 *47 *47 *47 *47 *47 *47 *47 *47
32 32 33 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44	20 HEX 81 82 83 84 85 86 87 88 87 88 87 88 87 88 87 88 87 88 87 88 87 88 88	64 Zone 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176	40 HEX *01 *02 *03 *04 *05 *06 *07 *08 *09 *0*0 *0*0 *0*0 *0*1 *0*2 *0*3 *0*4 *0*5 *10	96 Zone 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208	60 HEX *21 *22 *23 *24 *25 *26 *27 *28 *29 *2*0 *2*1 *2*2 *2*3 *2*4 *2*5 *30	Zone 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240	80 HEX *41 *42 *43 *44 *45 *46 *47 *48 *49 *47 *48 *49 *4*0 *4*1 *4*2 *4*3 *4*3 *4*4 *4*5 *50
32 32 33 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	20 HEX 81 82 83 84 85 86 87 88 87 88 87 88 87 88 87 88 87 88 87 88 87 88 87 88 88	64 Zone 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177	40 HEX *01 *02 *03 *04 *05 *06 *07 *08 *09 *0*0 *0*0 *0*1 *0*2 *0*3 *0*4 *0*5 *10 *11	96 Zone 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209	60 HEX *21 *22 *23 *24 *25 *26 *27 *28 *29 *2*0 *2*1 *2*2 *2*3 *2*4 *2*5 *30 *31	Zone 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241	80 HEX *41 *42 *43 *44 *45 *46 *47 *48 *49 *47 *48 *49 *4*0 *4*1 *4*2 *4*3 *4*3 *4*4 *4*5 *50 *51
32 32 33 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	20 HEX 81 82 83 84 85 86 87 88 87 88 87 88 87 88 87 88 87 88 87 88 87 88 87 88 87 88 87 88 89 8*1 8*2 8*3 8*4 8*5 90 91 92	64 Zone 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178	40 HEX *01 *02 *03 *04 *05 *06 *07 *08 *09 *0*0 *0*1 *0*2 *0*3 *0*4 *0*5 *10 *11 *12	96 Zone 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210	60 HEX *21 *22 *23 *24 *25 *26 *27 *28 *29 *2*0 *2*1 *2*2 *2*3 *2*4 *2*3 *2*4 *2*5 *30 *31 *32	128 Zone 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242	80 HEX *41 *42 *43 *44 *45 *46 *47 *48 *49 *47 *48 *49 *4*0 *4*1 *4*2 *4*3 *4*3 *4*4 *4*5 *50 *51 *52
32 32 33 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	20 HEX 81 82 83 84 85 86 87 88 87 88 87 88 87 88 87 88 87 88 8*0 8*1 8*2 8*3 8*4 8*5 90 91 92 93	64 Zone 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179	40 HEX *01 *02 *03 *04 *05 *06 *07 *08 *09 *0*0 *0*1 *0*2 *0*3 *0*4 *0*5 *10 *11 *12 *13	96 Zone 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211	60 HEX *21 *22 *23 *24 *25 *26 *27 *28 *29 *2*0 *2*1 *2*2 *2*3 *2*4 *2*5 *30 *31 *32 *33	128 Zone 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243	80 HEX *41 *42 *43 *44 *45 *46 *47 *48 *49 *47 *48 *49 *4*0 *4*1 *4*2 *4*3 *4*4 *4*5 *50 *51 *52 *53
32 32 33 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	20 HEX 81 82 83 84 85 86 87 88 87 88 89 8*0 8*1 8*2 8*3 8*4 8*5 90 91 92 93 94	64 Zone 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179	40 HEX *01 *02 *03 *04 *05 *06 *07 *08 *09 *0*0 *0*1 *0*2 *0*3 *0*4 *0*5 *10 *11 *12 *13 *14	96 Zone 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212	60 HEX *21 *22 *23 *24 *25 *26 *27 *28 *29 *2*0 *2*1 *2*2 *2*3 *2*4 *2*5 *30 *31 *32 *33 *34	128 Zone 225 226 227 228 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244	80 HEX *41 *42 *43 *44 *45 *46 *47 *48 *49 *440 *4*1 *4*2 *4*3 *4*4 *4*5 *50 *51 *52 *53 *54
32 32 33 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	20 HEX 81 82 83 83 84 85 86 87 88 87 88 89 8*0 8*1 8*2 8*3 8*4 8*5 90 91 92 93 94 95	64 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180	40 HEX *01 *02 *03 *04 *05 *06 *07 *08 *09 *0*0 *0*1 *0*2 *0*3 *0*4 *0*5 *10 *11 *12 *13 *14 *15	96 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213	60 HEX *21 *22 *23 *24 *25 *26 *27 *28 *29 *2*0 *2*1 *2*2 *2*3 *2*4 *2*5 *30 *31 *32 *33 *34 *34	128 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245	80 HEX *41 *42 *43 *44 *45 *46 *47 *48 *49 *47 *48 *49 *4*0 *4*1 *4*2 *4*3 *4*4 *4*5 *50 *51 *52 *53 *54 *55
One 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 50	20 HEX 81 82 83 84 85 86 87 88 87 88 89 8*0 8*1 8*2 8*3 8*4 8*5 90 91 92 93 94 95 96	64 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181	40 HEX *01 *02 *03 *04 *05 *06 *07 *08 *09 *0*0 *0*1 *0*2 *0*3 *0*4 *0*5 *10 *11 *12 *13 *14 *15 *16	96 Zone 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214	60 HEX *21 *22 *23 *24 *25 *26 *27 *28 *29 *2*0 *2*1 *2*2 *2*3 *2*4 *2*5 *30 *31 *32 *33 *34 *35 *36	128 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246	80 HEX *41 *42 *43 *44 *45 *46 *47 *48 *49 *440 *4*1 *4*2 *4*3 *4*4 *4*5 *50 *51 *52 *53 *55 *56
One 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51	20 HEX 81 82 83 84 85 86 87 88 87 88 89 8*0 8*1 8*2 8*3 8*4 8*5 90 91 92 93 94 95 96 97	Cone 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183	40 HEX *01 *02 *03 *04 *05 *06 *07 *08 *09 *0*0 *0*1 *0*2 *0*3 *0*4 *0*5 *10 *11 *12 *13 *14 *15 *16 *17	96 Zone 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215	60 HEX *21 *22 *23 *24 *25 *26 *27 *28 *29 *2*0 *2*1 *2*2 *2*3 *2*4 *2*5 *30 *31 *32 *33 *34 *35 *36 *37	Zone 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247	80 HEX *41 *42 *43 *44 *45 *46 *47 *48 *49 *47 *48 *49 *4*0 *4*1 *4*2 *4*3 *4*4 *4*5 *50 *51 *52 *53 *56 *56 *57
32 32 32 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 50 51 52	20 HEX 81 82 83 84 85 86 87 88 87 88 89 8*0 8*1 8*2 8*3 8*4 8*5 90 91 92 93 94 95 96 97 98	Cone 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183	40 HEX *01 *02 *03 *04 *05 *06 *07 *08 *09 *0*0 *0*1 *0*2 *0*3 *0*4 *0*5 *10 *11 *12 *13 *14 *15 *16 *17 *18	96 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216	60 *21 *22 *23 *24 *25 *26 *27 *28 *29 *2*0 *2*1 *2*2 *2*3 *2*4 *2*5 *30 *31 *32 *33 *34 *35 *36 *37 *38	Zone 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248	80 HEX *41 *42 *43 *44 *45 *46 *47 *48 *49 *440 *47 *48 *49 *4*0 *4*1 *4*2 *4*3 *4*4 *4*5 *50 *51 *52 *53 *56 *57 *58
one 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 <td>20 HEX 81 82 83 84 85 86 87 88 89 8*0 8*1 8*2 8*3 8*4 8*5 90 91 92 93 94 95 96 97 98 80</td> <td>Zone 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185</td> <td>40 HEX *01 *02 *03 *04 *05 *06 *07 *08 *09 *0*0 *0*1 *0*2 *0*3 *0*4 *0*5 *10 *11 *12 *13 *14 *15 *16 *17 *18 *19</td> <td>96 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217</td> <td>60 HEX *21 *22 *23 *24 *25 *26 *27 *28 *29 *2*0 *2*1 *2*2 *2*3 *2*4 *2*5 *30 *31 *32 *33 *34 *35 *36 *37 *38 *30</td> <td>128 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248</td> <td>80 HEX *41 *42 *43 *44 *45 *46 *47 *48 *49 *440 *47 *48 *49 *47 *48 *49 *47 *48 *49 *47 *48 *45 *50 *51 *52 *53 *55 *56 *57 *58</td>	20 HEX 81 82 83 84 85 86 87 88 89 8*0 8*1 8*2 8*3 8*4 8*5 90 91 92 93 94 95 96 97 98 80	Zone 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185	40 HEX *01 *02 *03 *04 *05 *06 *07 *08 *09 *0*0 *0*1 *0*2 *0*3 *0*4 *0*5 *10 *11 *12 *13 *14 *15 *16 *17 *18 *19	96 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217	60 HEX *21 *22 *23 *24 *25 *26 *27 *28 *29 *2*0 *2*1 *2*2 *2*3 *2*4 *2*5 *30 *31 *32 *33 *34 *35 *36 *37 *38 *30	128 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248	80 HEX *41 *42 *43 *44 *45 *46 *47 *48 *49 *440 *47 *48 *49 *47 *48 *49 *47 *48 *49 *47 *48 *45 *50 *51 *52 *53 *55 *56 *57 *58
32 32 32 33 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54	20 HEX 81 82 83 84 85 86 87 88 89 8*0 8*1 8*2 8*3 8*4 8*5 90 91 92 93 94 95 96 97 98 99 99 94	Cone 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186	40 HEX *01 *02 *03 *04 *05 *06 *07 *08 *09 *0*0 *0*1 *0*2 *0*3 *0*4 *0*5 *10 *11 *12 *13 *14 *15 *16 *17 *18 *19 *1*0	96 Zone 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218	60 HEX *21 *22 *23 *24 *25 *26 *27 *28 *29 *2*0 *2*1 *2*2 *2*3 *2*4 *2*5 *30 *31 *32 *33 *34 *35 *36 *37 *38 *39 *2*0	128 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248	80 HEX *41 *42 *43 *44 *45 *46 *47 *48 *49 *440 *47 *48 *49 *47 *48 *49 *47 *48 *49 *47 *48 *49 *47 *48 *49 *45 *50 *51 *52 *53 *55 *56 *57 *58
32 32 32 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54	20 HEX 81 82 83 84 85 86 87 88 89 8*0 8*1 8*2 8*3 8*4 8*5 90 91 92 93 94 95 96 97 98 99 9*0 0*1	Cone 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187	40 HEX *01 *02 *03 *04 *05 *06 *07 *08 *09 *0*0 *0*1 *0*2 *0*3 *0*4 *0*5 *10 *11 *12 *13 *14 *15 *16 *17 *18 *19 *1*0	96 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218	60 HEX *21 *22 *23 *24 *25 *26 *27 *28 *29 *2*0 *2*1 *2*2 *2*3 *2*4 *2*5 *30 *31 *32 *33 *34 *35 *36 *37 *38 *39 *3*0 *3*0	128 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248	80 HEX *41 *42 *43 *44 *45 *46 *47 *48 *49 *440 *47 *48 *49 *47 *48 *49 *47 *48 *49 *47 *48 *49 *47 *48 *49 *45 *50 *51 *52 *53 *55 *56 *57 *58
32 32 33 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56	20 HEX 81 82 83 84 85 86 87 88 89 8*0 8*1 8*2 8*3 8*4 8*5 90 91 92 93 94 95 96 97 98 99 9*0 9*1 9*2	64 Zone 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188	40 HEX *01 *02 *03 *04 *05 *06 *07 *08 *09 *0*0 *0*1 *0*2 *0*3 *0*4 *0*5 *10 *11 *12 *13 *14 *15 *16 *17 *18 *19 *1*1 *1*2	96 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220	60 HEX *21 *22 *23 *24 *25 *26 *27 *28 *29 *2*0 *2*1 *2*2 *2*3 *2*4 *2*5 *30 *31 *32 *33 *34 *35 *36 *37 *38 *39 *3*0 *3*1 *2*2	128 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248	80 HEX *41 *42 *43 *44 *45 *46 *47 *48 *49 *440 *47 *48 *49 *47 *48 *49 *47 *48 *49 *47 *48 *49 *47 *48 *49 *45 *50 *51 *52 *53 *55 *56 *57 *58
32 32 33 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57	20 HEX 81 82 83 84 85 86 87 88 89 8*0 8*1 8*2 8*3 8*4 8*5 90 91 92 93 94 95 96 97 98 99 9*0 9*1 9*2 9*3	64 Zone 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189	40 HEX *01 *02 *03 *04 *05 *06 *07 *08 *09 *0*0 *0*1 *0*2 *0*3 *0*4 *0*5 *10 *11 *12 *13 *14 *15 *16 *17 *18 *19 *1*10 *1*1 *1*2 *1*3	96 2011 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220	60 HEX *21 *22 *23 *24 *25 *26 *27 *28 *29 *2*0 *2*1 *2*2 *2*3 *2*4 *2*5 *30 *31 *32 *33 *34 *35 *36 *37 *38 *39 *3*0 *3*1 *3*2 *3*2	128 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248	80 HEX *41 *42 *43 *44 *45 *46 *47 *48 *49 *440 *47 *48 *49 *47 *48 *49 *47 *48 *49 *47 *48 *49 *45 *50 *51 *52 *53 *54 *55 *56 *57 *58
32 32 33 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58	20 HEX 81 82 83 84 85 86 87 88 89 8*0 8*1 8*2 8*3 8*4 8*5 90 91 92 93 94 95 96 97 98 99 9*0 9*1 9*2 9*3 9*4	Cone 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190	40 HEX *01 *02 *03 *04 *05 *06 *07 *08 *09 *0*0 *0*1 *0*2 *0*3 *0*4 *0*5 *10 *11 *12 *13 *14 *15 *16 *17 *18 *19 *1*0 *1*1 *1*2 *1*3 *1*4	96 2012 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222	60 HEX *21 *22 *23 *24 *25 *26 *27 *28 *29 *2*0 *2*1 *2*2 *2*3 *2*4 *2*5 *30 *31 *32 *33 *34 *35 *36 *37 *38 *39 *3*0 *3*1 *3*2 *3*3 *3*4	128 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248	80 HEX *41 *42 *43 *44 *45 *46 *47 *48 *49 *47 *48 *49 *47 *48 *49 *47 *48 *49 *47 *48 *49 *47 *48 *49 *45 *50 *51 *52 *53 *54 *55 *56 *57 *58
32 32 33 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59	20 HEX 81 82 83 84 85 86 87 88 89 8*0 8*1 8*2 8*3 8*4 8*5 90 91 92 93 94 95 96 97 98 99 9*0 9*1 9*2 9*3 9*4 9*5	Cone 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191	40 HEX *01 *02 *03 *04 *05 *06 *07 *08 *09 *0*0 *0*1 *0*2 *0*3 *0*4 *0*5 *10 *11 *12 *13 *14 *15 *16 *17 *18 *19 *1*0 *1*1 *1*2 *1*3 *1*4 *1*5	96 2011 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223	60 HEX *21 *22 *23 *24 *25 *26 *27 *28 *29 *2*0 *2*1 *2*2 *2*3 *2*4 *2*5 *30 *31 *32 *33 *34 *35 *36 *37 *38 *39 *3*0 *3*1 *3*2 *3*3 *3*4 *3*4 *3*5	128 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248	80 HEX *41 *42 *43 *44 *45 *46 *47 *48 *49 *440 *447 *48 *49 *440 *441 *442 *443 *444 *455 *50 *51 *52 *53 *54 *55 *56 *57 *58
32 32 33 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60	20 HEX 81 82 83 84 85 86 87 87 88 89 8*0 8*1 8*2 8*3 8*4 8*5 90 91 92 93 94 95 96 97 98 99 9*0 9*1 9*2 9*3 9*4 9*5 *00	Zone 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191	40 HEX *01 *02 *03 *04 *05 *06 *07 *08 *09 *0*0 *0*1 *0*2 *0*3 *0*4 *0*5 *10 *11 *12 *13 *14 *15 *16 *17 *18 *19 *1*0 *1*1 *1*2 *1*3 *1*4 *1*5 *20	96 2011 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224	60 HEX *21 *22 *23 *24 *25 *26 *27 *28 *29 *2*0 *2*1 *2*2 *2*3 *2*4 *2*5 *30 *31 *32 *33 *34 *35 *36 *37 *38 *39 *3*0 *3*1 *3*2 *3*3 *3*4 *3*5 *40	128 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248	80 HEX *41 *42 *43 *44 *45 *46 *47 *48 *49 *440 *447 *48 *49 *440 *441 *442 *443 *444 *45 *50 *51 *52 *53 *54 *55 *56 *57 *58



10.37 Output Function Programming: Program Addresses (2772-2843)

Output programming allows you to have the Outputs follow status events by partition or system-wide, or follow zone outputs in an Input/ Output Cross Matrix. See the Programming Addresses Worksheet (P/N: 43850) for a description of each address. **See Glossary** (section 6.4) for further details.



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10.37.1 Outp	ut Function Par	tition Assignm	ent: Program A	ddresses (285	62-2863)		
Program Ad	ldress 2852	Program Ad	dress 2853	Program Ad	dress 2854		
Data Digit 1	Data Digit 2	Data Digit 1	Data Digit 2	Data Digit 1	Data Digit 2		
Function 1	Function 2	Function 3	Function 4	Function 5	Function 6		
Program Ad	ldress 2855	Program Ad	dress 2856	Program Ad	ldress 2857	Select Option	DD
Data Digit 1	Data Digit 2	Data Digit 1	Data Digit 2	Data Digit 1	Data Digit 2	Belongs to Partition 1	0
						Belongs to Partition 2	1
Function 7	Function 8	Function 9	Function 10	Function 11	Function 12	Belongs to Partition 3	2
						Belongs to Partition 4	3
						Belongs to Partition 5	4
Program Ad	ldress 2858	Program Ad	dress 2859	Program Ad	dress 2860	Belongs to Partition 6	5
Data Digit 1	Data Digit 2	Data Digit 1	Data Digit 2	Data Digit 1	Data Digit 2	Belongs to Partition 7	6
						Belongs to Partition 8	7
Function 13	Function 14	Function 15	Function 16	Function 17	Function 18	Follows all Partitions	8
Program Ad	ldress 2861	Program Ad	dress 2862	Program Ad	dress 2863		
Data Digit 1	Data Digit 2	Data Digit 1	Data Digit 2	Data Digit 1	Data Digit 2		

10.38 Dual Phone Line/Bell Supervision Module Output Programming: Program Address (4021)

The Dual Phone Line/Bell Supervision Module is the DS7420i. See section 1.18 for further details. When in Central Station or Local Commercial Fire Mode, this address will be forced to specific values (see sections 10.16.1 and 10.16.2).

Options	0	1	2	3	4	5	6	7	8	9	
Bell Monitor						•			•		
Phone Line 1 Monitor					ullet	ullet	•	ullet		ullet	Data Digit 2
Phone Line 2 Monitor						igodol					
Alarm Output on line fault											

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10.39 Call-Out Timer Programming: Program Addresses (4022-4025)

This section allows you to define the Hour and Minute for the Communicator Test Report and Remote Programmer Call-Out. The default time for the Communicator Test Report to be sent and for the control to call the Remote Programmer is Midnight.



10.40 Test Report and Remote Programmer Call-Out Programming: Program Address (4026)

This section allows you to define the Day and Frequency for the Communicator Test Report and the Remote Programmer Call-Out. If this address is not programmed, the Communicator Test Report will not be sent and the control will not call the Remote Programmer. Data Digit



10.41 Alpha Description Programming: Program Addresses (0545-2720, 5001-6920)

Alpha Description Programming allows up to 16 characters to be programmed for the description of each partition or zone (e.g. "J. Hill's Office"). If a description is less than 16 characters, leave the remaining address(es) blank. Once programmed, the descriptions will be displayed on the alpha keypads.

The following char	t lists the Program	Addresses used t	to program	Alpha-Numeric	characters for	each partition	or zone:
9	9						

-	-		-		
Partition 1	Program Address 0545 - 0560	Partition 5 Program Add	624 Zone 1	Program Address 0673 - 0688	Zone 5 Program Address 0737 - 0752
Partition 2	Program Address 0561 - 0576	Partition 6 Program Add	640 Zone 2	Program Address 0689 - 0704	Zone 6 Program Address 0753 - 0768
Partition 3	Program Address 0577 - 0592	Program Add Partition 7 0641 - 0	656 Zone 3	Program Address 0705 - 0720	Program Address Zone 7 0769 - 0784
Partition 4	Program Address 0593 - 0608	Program Add Partition 8 0657 - 00	672 Zone 4	Program Address 0721 - 0736	Zone 80785 - 0800
Zones 9 thr	ہ ough 128 080 (16	Program Addresses 1 through 2720 addresses per zone)	Zones 129 t	hrough 248 5	Program Addresses 001 through 6920 (16 addresses per zone)

See Section 10.41.1 for an Alpha Description Programming worksheet for Partitions 1 through 8 and Zones 1 through 8. See the Programming Addresses Worksheet (P/N: 43850) for a complete Alpha Programming Worksheet (covering addresses 0545 through 6920).

> Words are created one character at a time. Each character uses two data digits. The data digit values for these characters are shown below:

		8							
ValueCh	aracter	ValueCh	aracter		ValueCh	naracter	<u> </u>	/alueChara	cter
02	blank space	83	8		05	Р		86	h
12	!	93	9		15	Q		96	i
22		*03	:		25	R		*06	j
32	#	*13	,		35	S		*16	k
42	\$	*23	<		45	Т		*26	I
52	%	*33	=		55	U		*36	m
62	&	*43	>		65	V		*46	n
72	,	*53	?		75	W		*56	0
82	(04	@		85	Х		07	р
92)	14	А		95	Y		17	q
*02	*	24	В		*05	Z		27	r
*12	+	34	С		*15	[37	S
*22	,	44	D		*25	¥		47	t
*32	-	54	Е		*35]		57	u
*42	-	64	F		*45	^		67	v
*52	1	74	G		*55	_		77	w
03	0	84	Н		06	1		87	х
13	1	94			16	а		97	У
23	2	*04	J		26	b		*07	Z
33	3	*14	K		36	С		*17	{
43	4	*24	L		46	d		*27	
53	5	*34	М		56	е		*37	}
63	6	*44	Ν		66	f		*47	→
73	7	*54	0		76	g			
			E	xample	e				
	Character	Character Ch	aracter	Character	Character	Character	Character	Character	
	1	2	3	4	5	6	7	8	
Тех	t C	Н	Е	Μ		С	Α	L	
\ \/_l				*2 4	0	2		*2 /	
valu	e <u>3</u> 4	0 4 5	4	5 4	94	54	1 4	Z 4	
	0545-1 0545-2	0546-1 0546-2 0547	7-1 0547-2 0	548-1 0548-2	0549-1 0549-2	0550-1 0550-2	0551-1 0551-2	0552-1 0552-2	
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	Sience Guide	Соруг	iyin 🗢 ZU	01 003011 0	County Oyst		1/N. 1 01C	000020-01	raye 09

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10.41.1 AI	pha Descr	iption Prog	ramming: /	A Workshee	et				
		Character 1	Character 2	Character 3	Character 4	Character 5	Character <u>6</u>	Character 7	Character 8
	Text								
.	Value								
uo	5	0545-1 0545-2	0546-1 0546-2	0547-1 0547-2	0548-1 0548-2	0549-1 0549-2	0550-1 0550-2	0551-1 0551-2	0552-1 0552-2
		Character 9	Character 10	Character 11	Character 12	Character 13	Character 14	Character 15	Character 16
ä	- Text								
	Value								
		0553-1 0553-2	0554-1 0554-2	0555-1 0555-2	0556-1 0556-2	0557-1 0557-2	0558-1 0558-2	0559-1 0559-2	0560-1 0560-2
		Character	Character	Character	Character	Character	Character	Character	Character
	_	1	2	3	4	5	6	7	8
	Text								
~	Value								
tion		0561-1 0561-2	0562-1 0562-2	0563-1 0563-2	0564-1 0564-2	0565-1 0565-2	0566-1 0566-2	0567-1 0567-2	0568-1 0568-2
arti	5	9	10	Character 11	12	13	14	15	16
	Text								
	Value								
		0569-1 0569-2	0570-1 0570-2	0571-1 0571-2	0572-1 0572-2	0573-1 0573-2	0574-1 0574-2	0575-1 0575-2	0576-1 0576-2
		Character 1	Character 2	Character 3	Character 4	Character 5	Character 6	Character 7	Character 8
	Text								
	Value								
u c	5	0577-1 0577-2	0578-1 0578-2	0579-1 0579-2	0580-1 0580-2	0581-1 0581-2	0582-1 0582-2	0583-1 0583-2	0584-1 0584-2
		Character 9	Character	Character	Character 12	Character	Character 14	Character	Character
E C	- Text	<u> </u>							
	Value								
	, alde	0585-1 0585-2	0586-1 0586-2	0587-1 0587-2	0588-1 0588-2	0589-1 0589-2	0590-1 0590-2	0591-1 0591-2	0592-1 0592-2
		Character	Character	Character	Character	Character	Character	Character	Character
	— -	1	2	3	4	5	6	7	8
	Text								
4	Value								
		0593-1 0593-2	0594-1 0594-2	0595-1 0595-2	0596-1 0596-2	0597-1 0597-2	0598-1 0598-2	0599-1 1580-2	Oberactor
Dart	5	9							
_	Text								
	Value								
		0601-1 0601-2	0602-1 0602-2	0603-1 0603-2	0604-1 0604-2	: 0605-1 0605-2	: 0606-1 0606-2	0607-1 0607-2	0608-1 0608-2

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10.41.1 Alpha E	Descriptio	on Program	nming: A W	/orksheet ((Continued)			
		Character 1	Character 2	Character 3	Character 4	Character 5	Character 6	Character 7	Character 8
	Text								
	Value								
on 5		0609-1 0609-2	0610-1 0610-2	0611-1 0611-2	0612-1 0612-2	0613-1 0613-2	0614-1 0614-2	0615-1 0615-2	0616-1 0616-2
artitic		Character 9	Character 10	Character 1	Character 12	Character 13	Character 14	Character 15	Character 16
č	Text								
	Value								
		0617-1 0617-2	0618-1 0618-2	0619-1 0619-2	0620-1 0620-2	0621-1 0621-2	0622-1 0622-2	0623-1 0623-2	0624-1 0624-2
		Character	Character	Character	Character	Character	Character	Character	Character
	-	1	2	3	4	5	6	7	8
	lext								
9	Value								
tion		Character	Character	Character	Character	Character	Character	Character	Character
arti		9	10		12	13	14	15	16
D	Text								
	Value								
		0633-1 0633-2	0634-1 0634-2	0635-1 0635-2	0636-1 0636-2	0637-1 0637-2	0638-1 0638-2	0639-1 0639-2	0640-1 0640-2
		Character	Character	Character	Character	Character	Character	Character	Character
	Toyt		2	3	4	5	6	7	8
	ICAL								
2 U	Value	0641-1 0641-2	0642-1 0642-2	0643-1 0643-2	0644-1 0644-2	0645-1 0645-2	0646-1 0646-2	0647-1 0647-2	0648-1 0648-2
itio		Character	Character	Character	Character	Character	Character	Character	Character
Part	-	9	10	1	12	13	14	15	16
—	lext								
	Value								
		0649-1 0649-2	0650-1 0650-2	0651-1 0651-2	0652-1 0652-2	0653-1 0653-2	0654-1 0654-2	0655-1 0655-2	0656-1 0656-2
		Character	Character	Character	Character	Character	Character	Character	Character
	Tarat	1	2	3	4	5	6	7	8
	lext								
8	Value	0657.1.0657.0	0659,1,0659,0	0650 1 0650 0	0660 1 0660 0	0661 1 0661 0	0662 1 0662 2	0663.4.0663.3	0664.1.0664.2
itior		Character	Character	Character	Character	Character	Character	Character	Character
Jart	_	9	10	1	12	13	14	15	16
<u> </u>	Text								
	Value								
		0665-1 0665-2	0666-1 0666-2	0667-1 0667-2	0668-1 0668-2	0669-1 0669-2	0670-1 0670-2	0671-1 0671-2	0672-1 0672-2

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10.41.1 Al	pha Descri	ption Prog	ramming:	A Workshee	et (Continu	ed)			
		Character <u>1</u>	Character 2	Character 3	Character 4	Character 5	Character <u>6</u>	Character	Character 8
	Text								
	Value								
a. 		0673-1 0673-2	0674-1 0674-2	0675-1 0675-2	0676-1 0676-2	0677-1 0677-2	0678-1 0678-2	0679-1 0679-2	0680-1 0680-2
Zoni		Character 9	Character 10	Character 11	Character 12	Character 13	Character 14	Character 15	Character 16
	Text								
	Value								
		0681-1 0681-2	0682-1 0682-2	0683-1 0683-2	0684-1 0684-2	0685-1 0685-2	0686-1 0686-2	0687-1 0687-2	0688-1 0688-2
		Character	Character	Character	Character	Character	Character	Character	Character
	Text	1		3	4	5	6		8
~	value	0689-1 0689-	2 0690-1 0690-	2 0691-1 0691-2	0692-1 0692-2	0693-1 0693-2	2 0694-1 0694-2	2 0695-1 0695-2	0696-1 0696-2
one		Character 9	Character	Character	Character 12	Character	Character 14	Character	Character
	Text								
	Value								
		0697-1 0697	-2 0698-1 0698-	2 0699-1 0699-2	2 0700-1 0700-2	2 0701-1 0701-	2 0702-1 0702-2	2 0703-1 0703-2	0704-1 0704-2
		Character	Character	Character	Character	Character	Character	Character	Character
							6		
	Text								
	Value								
3 10 10		0705-1 0705-2	0706-1 0706-2	0707-1 0707-2	0708-1 0708-2	0709-1 0709-2	0710-1 0710-2	0711-1 0711-2	0712-1 0712-2
Zon	, ,	Character 9	Character 10	Character 11	Character 12	Character 13	Character 14	Character 15	Character 16
	Text								
	Value								
		0713-1 0713-2	0714-1 0714-2	2 0715-1 0715-2	0716-1 0716-2	0717-1 0717-2	2 0718-1 0718-2	2 0719-1 0719-2	0720-1 0720-2
		Character	Character	Character	Character	Character	Character	Character	Character
	Text	1	2	3	4	5	0		°
	Value								
4	value	0721-1 0721-2	0722-1 0722-2	0723-1 0723-2	0724-1 0724-2	0725-1 0725-2	0726-1 0726-2	0727-1 0727-2	0728-1 0728-2
'one		Character o	Character	Character	Character	Character	Character	Character	Character
	Text	3					14		
	∖/alue								
	value	0729-1 0729-2	0730-1 0730-2	0731-1 0731-2	0732-1 0732-2	0733-1 0733-2	2 0734-1 0734-2	2 0735-1 0735-2	0736-1 0736-2
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10.41.1 Alpł	na Descr	iption Prog	ramming:	A Workshe	et (Contin	ued)			
		Character 1	Character 2	Character 3	Character 4	Character 5	Character 6	Character 7	Character 8
	Text								
	Value								
Je 5		0737-1 0737-2	0738-1 0738-2	0739-1 0739-2	0740-1 0740-2	0741-1 0741-2	0742-1 0742-2	0743-1 0743-2	0744-1 0744-2
Zoi		Character 9	Character 10	Character 11	Character 12	Character 13	Character 14	Character 15	Character 16
	Text								
	Value								
		0745-1 0745-2	2 0746-1 0746-2	2 0747-1 0747-2 Character	2 0748-1 0748-2	2 0749-1 0749-2	2 0750-1 0750-2	2 0751-1 0751-2 Character	0752-1 0752-2
			2	3	4	5		7	8
	Text								
G	Value								
ne (0753-1 0753-2	0754-1 0754-2	0755-1 0755-2	0756-1 0756-2	0757-1 0757-2	0758-1 0758-2	0759-1 0759-2	0760-1 0760-2
Zo		Character 9	Character 10	Character 11	Character 12	Character 13	Character 14	Character 15	Character 16
	Text								
	Value								
		Character 1	Character 2	Character 3	Character 4	Character 5	Character 6	Character 7	Character 8
	Text								
~	Value								
one		0769-1 0769-2	0770-1 0770-2	0771-1 0771-2	0772-1 0772-2	0773-1 0773-2	0774-1 0774-2	0775-1 0775-2	0776-1 0776-2
ă		9	10		12	13		15	16
	Text								
	Value								
		0777-1 0777-2	0778-1 0778-2	0779-1 0779-2	0780-1 0780-2	0781-1 0781-2	0782-1 0782-2	0783-1 0783-2	0784-1 0784-2
		Character 1	Character 2	Character 3	Character 4	Character 5	Character 6	Character 7	Character 8
	Text								
	Value								
1e 8		0785-1 0785-2	0786-1 0786-2	0787-1 0787-2	0788-1 0788-2	0789-1 0789-2	0790-1 0790-2	0791-1 0791-2	0792-1 0792-2
Zoł		Character م	Character	Character	Character 12	Character	Character 1∕	Character	Character
	Text	3							
	\/alua								
		0793-1 0793-2	0794-1 0794-2	0795-1 0795-2	0796-1 0796-2	0797-1 0797-2	0798-1 0798-2	0799-1 0799-2	0800-1 0800-2
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11.0 Installation Guide for UL Listed Systems

11.1 DS7400Xi UL Listings:

- Household Fire Alarm, UL Standard UL985
- Commercial Fire Alarm (Type Service: Local, Central Station, Remote Station; Type Initiating: Automatic, Manual, Sprinkler Supervisory, and Waterflow), UL Standard UL864
- Household Burglary Alarm, UL Standard UL1023
- Police Station Connection Grades AA and A, UL Standard UL365
- Central Station Burglary Alarm Grades AA, A, B, and C; UL Standard UL1610
- Proprietary Alarm Units Grades A and AA, UL Standard UL1076

The control panel should be installed in accordance with UL Standard UL681, Installation and Classification of Mercantile and Bank Burglar Alarm Systems, or UL Standard UL1641, Installation and Classification of Residential Burglar Alarm Systems. It should also be installed in accordance with NFPA 72 for Household and Commercial Fire installations.

11.1.1 UL System Configurations

The following table shows the DS7400Xi system configuration for the various types of fire and burglar alarm service for which the product is UL Listed.

Broduct	UL Application													
Floudet	CSF-D	CSF-D/RF	LF	CSB-A	PP-AA	CSB-B/C	PP-A	LB-A	PSCB-D-A	PSCB-RF-A	HF/B			
3007-9001 DS7400Xi	R	R	R	R	R	R	R	R	R	R	R			
Standard Enclosure	1	1	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1			
Attack Enclosure	1	1	1	R	R	R	R	R	R	R	1			
AE-TR16 Enclosure	R	R	R	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a			
DS7416i	n/a	R	n/a	R	R	n/a	n/a	n/a	n/a	R	n/a			
DS7420i	R	4	R	4	4	n/a	n/a	n/a	n/a	4	n/a			
DS7430	0	0	0	0	0	0	0	0	0	0	0			
DS7432	0	0	0	0	0	0	0	0	0	0	0			
DS7433	0	0	0	0	0	0	0	0	0	0	0			
DS7447/DS7447E	2	2	2	3	3	3	3	3	3	3	3			
DS7460	0	0	0	0	0	0	0	0	0	0	0			
DS7480	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	R			
DS7481	n/a	4	n/a	4	4	n/a	n/a	n/a	n/a	4	n/a			
DS7488	0	0	0	0	0	0	0	0	0	0	0			
AB12 Bell w/Housing	n/a	n/a	n/a	R	R	R	R	R	R	R	n/a			

Key to Application Codes

CSF-D = Central Station Fire w/ DACT (Digital Alarm Communications Transmitter/dialer) **CSF-D/RF** = Central Station Fire w/ DACT and Radio (DS7416i) **LF** = Local Fire

CSB-A = Central Station Burglary, grades AA and A

PP-AA = Proprietary grade AA

CSB-B/C = Central Station Burglary, grades B and C

PP-A = Proprietary grade A

LB-A = Local Burglary, grade A

PSCB-D-A = Police Station Connected Burglary w/DACT, grade A

PSCB-RF-A = Police Station Connected Burglary w/Radio (DS7416i), grades AA and A

HF/B = Household (residential) Fire and Burglary

Configuration Codes

R = Required

0 = Optional

n/a = Not Applicable1 = Standard or attack enclosure may be

used.

2 = Either enclosure may be used. Device

must be mounted to the enclosure cover, or within 20 ft. w/wiring in conduit.

3 = Either enclosure may be used.

4 = Either the DS7420i or the DS7481 must be used to monitor the phone line

input to the control unit.

11.2 Installation Considerations

- Failure to install and program the control in accordance with the requirements in this section voids the listing mark of Underwriters Laboratories, Inc.
- The maximum standby battery capacity is 35 Ah @ 12 VDC.
- The total nominal standby current must not exceed 1.5 A nor 2.5 A when in alarm.
- The control must be mounted indoors and within the protected area.
- Enclosure tamper switches (if used) must be connected to a 24-hour zone.
- Grounding must be in accordance with article 250 of the NEC (NFPA 70).
- At least one UL Listed keypad with zone display must be connected.
- Zones must be connected to UL Listed, compatible devices.
- 50 Hz. AC input cannot be used in UL Listed Requirements.
- The ground wire provided with the enclosure must be connected to the "Earth GND" connection on the control and the enclosure tab.
- The keypad panic alarm output must follow the corresponding zone function's programming (e.g. fire = pulsing [or steady if not a combination], burglary = steady). In all cases, the special emergency keys must be silent.
- The ground start feature shall not be programmed.

11.3 Programming the DS7400Xi

When used in UL Listed Requirements, the control must conform to certain programming requirements. The following is a list of the required program entries and required accessories for specific UL Listed Requirements.

11.3.1 Household Fire Alarm Using Digital Alarm Communicator Transmitter With Local Bell

The control must be installed in accordance with NFPA 72.

Required Accessories:

- At least one Detection Systems, Inc. Model DS250 Series smoke detector with an MB Series base, DS280 Series, MX280 Series, or another Listed compatible smoke detector.
- At least one DS7480 Bell Supervision Module.
- One Wheelock 46T-G10-12 bell or 34T-12 horn (will provide 85db for UL985 and NFPA 72 requirements; other Listed compatible devices with a voltage range of 10.2 to 14.0 V may be used) is required and must be installed inside the protected area.
- The standard control enclosure can be used.
- At least one DS7447/DS7447E or DS7445/DS7445i Keypad must be used.
- Four-wire detectors must be used with Listed power supervision devices. A compatible Listed 4-wire detector is the Detection Systems, Inc. DS250 in an MB4W base. A compatible Listed EOL relay is the Detection Systems, Inc. EOL200.
- All zones must be used with the EOL resistor (P/N 25899), provided.

1. Report Programming:

- Fire Zone Report must be programmed.
- Low Battery Report (Program Address 3336) must be programmed.
- AC Failure Report (Program Address 3338) must be programmed.

2. Timer Programming:

• Bell Cutoff Times (Program Addresses 4032 and 4033) must

be programmed for not less than 4 minutes.

3. Zone Function Programming:

• For household fire installations only, the output signal may be pulsed or steady. For a combination system, see the selection below on alarm output programming.

4. Alarm Output Programming:

• Program Address 2734 must be programmed as: Data Digit 1= 6, Data Digit 2= 3.

5. General Control Programming:

• Program Address 2732 must be programmed as: Data Digit 1= 0, Data Digit 2= 0.

11.3.2Grade A Household Burglary Alarm Using Digital Alarm Communicator Transmitter With Local Bell

The control must be installed in accordance with UL Standard UL1641.

Required Accessories:

- At least one Wheelock 46T-G10-12 bell or 34T-12 horn (other Listed compatible devices with a voltage range of 10.2 to 14.0 V may be used) is required for this application.
- The standard DS7400 enclosure can be used.

1. Report Programming:

- Burglar Zone Reports must be programmed for those zones used.
- Low Battery Report (Program Address 3336) must be programmed.
- AC Failure Report (Program Address 3338) must be programmed.

2. Timer Programming:

- Bell Cutoff Times (Program Addresses 4032 and 4033) must be programmed for not less than 4 minutes.
- Entry Delay Timer (Program Addresses 4028 and 4029) must be programmed for not longer than 60 seconds.
- Exit Delay Timer (Program Address 4030) must be programmed for not longer than 45 seconds.

3. General Control Programming:

- Program Address 0000, Data Digit 2 must be programmed for NO Swinger Shunts (enter 0, 1, or 2).
- Program Address 2732 must be programmed as: Data Digit 1= 0, Data Digit 2= 0.

4. Alarm Output Programming:

- Program Address 2734 must be programmed as: Data Digit 1= 6, Data Digit 2= 3.
- Program Address 2737 must be programmed as: Data Digit 1= 8.
- **NOTE** In a system that includes both fire alarm and burglar alarm devices, the system must produce distinct sounds for fire and burglar alarm conditions either by using different indicating appliances or by using distinct cadences for the same appliance.

11.4 General System Requirements

Applies to the following grades only:

Local Burglary Alarm -	Grade A using Digital Alarm Communicator Transmitter (DACT)
Police Station Connection -	Grades AA and A using DACT and DS7416i Communications module. Grade A using DACT and local Bell.
Central Station Burglary Alarm -	Grades AA and A using DACT and DS7416i Communications module. Grade B using DACT and local bell. Grade C using Digital Alarm Communicator

The controls must be installed in accordance with UL Standards UL681 and UL609 for all grades of service.

Transmitter only.

1. Report Programming:

- Burglar Zone Reports must be programmed for those zones used.
- Low Battery Report (Program Address 3336) must be programmed.
- AC Failure Report (Program Address 3338) must be programmed.
- Open Report (Program Address 3331) must be programmed.
- Close Report (Program Address 3332) must be programmed.
- 24-Hour Check-In Reports (Program Addresses 3340 and 3347) must be programmed.

2. General Control Programming:

- The control must not be programmed for auto disarm.
- Must be programmed for no swinger shunts and closing ringback. (Program Address 0000 data digit 2, enter 0, 1, or 2).
- Program Address 2732 must be programmed as: Data Digit 1= 0, Data Digit 2= 0.

3. Zone Function Programming:

• The Burglar alarm signal (whether pulsed or steady) must be different from the Fire alarm signal.

4. Alarm Output Programming:

- Program Address 2734 must be programmed as: Data Digit 1= 6, Data Digit 2 = 3.
- Program Address 2737 must be programmed as: Data Digit 1= 8.

11.4.1 Local Burglary Alarm

A.Grade A Installations using Digital Alarm Communicator Transmitter with local bell

Follow General System Requirements as listed in 11.4.

Required Accessories:

- The control must be in the Detection System's model AE3CC enclosure with a cover actuated tamper switch installed.
- An Ademco Model AB-12 bell/housing (see section 11.6).

1. Timer Programming:

- Bell Cutoff Times (Program Addresses 4032 and 4033) must be programmed for not less than 15 minutes.
- Entry, Exit Delay Times (Program Addresses 4028-4029) must be programmed for not longer than 60 seconds.

11.4.2 Police Station Connection

Follow General System Requirements as listed in 11.4.

Required Accessories:

• The control must be in the Detection Systems' model AE3CC enclosure with a cover actuated tamper switch installed.

- An DS7416i (or DataTAC) interface module.
- The DS7416i module and antenna should be mounted within the protected area.
- The Detection Systems' model DS7481 Phone Line Monitor.

1. Timer Programming:

• Entry, Exit Delay Times (Program Addresses 4028-4030) must be programmed for not longer than 60 seconds.

B. Grade A Installations Using Digital Alarm Communicator Transmitter With Local Bell

Follow General System Requirements as listed in 11.4.

Required Accessories:

- The control must be in the Detection System's model AE3CC enclosure with a cover actuated tamper switch installed.
- The Ademco Model AB-12 bell/housing (see section 11.6).

1. Timer Programming:

- Bell Cutoff Times (Program Addresses 4032 and 4033) must be programmed for not less than 15 minutes.
- Entry, Exit Delay Times (Program Addresses 4028-4030) must be programmed for not longer than 60 seconds.

11.4.3 Central Station Burglary Alarm and Proprietary

A.Central Station Burglary Grades AA and A and Proprietary Grade AA Installations Using an DS7416i Interface Module Follow **General System Requirements** as listed in **11.4**.

Required Accessories:

- The control must be in the Detection Systems' model AE3CC enclosure with a cover actuated tamper switch installed.
- An DS7416i (or DataTAC) interface module.
- The DS7416i module and antenna should be mounted within the protected area.
- The Detection Systems' model DS7481 Phone Line Monitor.
- The Ademco Model AB-12 bell/housing (see section 11.6).

1. Timer Programming:

• Entry, Exit Delay Times (Program Addresses 4028-4030) must be programmed for not longer than 60 seconds.

B.Grade B Installations Using Digital Alarm Communicator Transmitter With Local Bell

Follow General System Requirements as listed in 11.4.

Required Accessories:

- The control must be in the Detection Systems' model AE3CC enclosure with a cover actuated tamper switch installed.
- The Ademco Model AB-12 bell/housing (see section 11.6).

1. Timer Programming:

- Bell Cutoff Times (Program Addresses 4032 and 4033) must be programmed for not less than 15 minutes.
- Entry, Exit Delay Times (Program Addresses 4028-4030) must be programmed for not longer than 60 seconds.

C.Central Station Burglary Grade C and Proprietary Grade A Installations Using Digital Alarm Communicator Transmitter only Follow **General System Requirements** as listed in **11.4**.

Required Accessories:

• The control must be in the Detection System's model AE3CC enclosure with a cover actuated tamper switch installed.

1. Timer Programming:

• Entry, Exit Delay Times (Program Addresses 4028-4030) must be programmed for not longer than 60 seconds.

11.5 Commercial Fire Alarm

A. Central Station (DACT) and Local

The control must be installed in accordance with NFPA 72.

Required Accessories:

- DS7420i Dual Phone Line/Bell Supervision Module.
- For Local Commercial Fire Alarm: A Listed notification appliance such as a Wheelock 46T-G10-12 bell or 34T-12 horn.
- If not using the phone line supervision, it must be disabled.
- AE-TR16 Transformer Housing.
- At least one DS7447/DS7447E must be used and assigned as keypad 1. If only one is used, it may be connected to the keypad bus if the keypad is mounted to the front of the box or within the same room as the control equipment and the wire is run in conduit (or equivalently protected against mechanical injury) within 20 ft. (6.1 m) of the control equipment. If multiple keypads are used, <u>one keypad only</u> must be used on the options bus and assigned as keypad 11-14 and meet the same requirements as in single keypad use.
- 50 Hz. operation and ground start are automatically forced to the disabled state when central station fire mode is selected.

1. Report Programming:

- Burglar Zone Reports must be programmed for those zones used.
- Fire Zone Reports must be programmed for those zones used.
- Low Battery Report (Program Address 3336) must be programmed.
- AC Failure Report (Program Address 3338) must be programmed.

- Open Report (Program Address 3331) must be programmed.
- Close Report (Program Address 3332) must be programmed.
- 24-Hour Check-In Reports (Program Addresses 3340 and 3347) must be programmed.

2. Timer Programming:

- Bell Cutoff Times (Program Addresses 4032 and 4033) must be programmed for not less than 5 minutes.
- Entry, Exit Delay Times (Program Addresses 4028-4030) must be programmed for not longer than 60 seconds.

3. General Control Programming:

- Must be programmed for no swinger shunts (Program Address 0000 data digit 2, enter 0, 1, or 2).
- Program Address 2732 must be programmed as: Data Digit 1=0, Data Digit 2= 0.

4. Commercial Fire Mode Programming:

- Local (Program Address 2733, data digit 1, enter as a 1 through 6).
- Central Station (Program Address 2733, data digit 1, enter as a 7 through *2).
- The keypad panic functions are not intended to be a substitute for Listed manual pull boxes.

11.6 Wiring and Programming Information for Installations Using the Ademco AB-12 Bell/Housing



1) Disconnect the wire jumper from terminal 4 to the inner housing of the Bell Box (prevents a ground fault condition).

- Connect wiring between the control and Bell Box as shown above. To use the AB-12 Bell/Housing, cut the jumper wire "JP1" on the control. The EOL used in the AB-12 Bell/Housing must be 27 kΩ.
- 3) Program Zone 8 as a 24-hour zone by programming it to follow zone function 7. (Program address 0038 = 07).
- 4) Do not change the default programming of zone function 7. (Program address 0007 should be 22).

Report Programming <u>12.0</u>

12.1 4/2 Format

Reports with Restorals

Suggested Values					Reports with Restorals																	
	Re	port			Res	toral			Tro	uble			Trouble	Rest	oral		Вур	ass		Bypass I	Rest	oral
	Address	Va	lue		Address	Va	lue	1	Address	Va	lue		Address	Va	lue		Address	Va	lue	Address	Va	lue
Zone Function 1	3209	Α	1		3241	2	1		3271	6	1		3301	4	1		3358	8	1	3388	9	1
Zone Function 2	3210	Α	2		3242	2	2		3272	6	2		3302	4	2		3359	8	2	3389	9	2
Zone Function 3	3211	А	3		3243	2	3		3273	6	3		3303	4	3		3360	8	3	3390	9	3
Zone Function 4	3212	А	4		3244	2	4		3274	6	4		3304	4	4		3361	8	4	3391	9	4
Zone Function 5	3213	А	5		3245	2	5		3275	6	5		3305	4	5		3362	8	5	3392	9	5
Zone Function 6	3214	А	6		3246	2	6		3276	6	6		3306	4	6		3363	8	6	3393	9	6
Zone Function 7	3215	А	7		3247	2	7		3277	6	7		3307	4	7		3364	8	7	3394	9	7
Zone Function 8	3216	А	8		3248	2	8		3278	6	8		3308	4	8		3365	8	8	3395	9	8
Zone Function 9	3217	А	9		3249	2	9		3279	6	9		3309	4	9		3366	8	9	3396	9	9
Zone Function 10	3218	А	А		3250	2	А		3280	6	А		3310	4	А		3367	8	А	3397	9	А
Zone Function 11	3219	А	В		3251	2	В		3281	6	В		3311	4	В		3368	8	В	3398	9	В
Zone Function 12	3220	А	С		3252	2	С		3282	6	С		3312	4	С		3369	8	С	3399	9	С
Zone Function 13	3221	А	D		3253	2	D		3283	6	D		3313	4	D		3370	8	D	3400	9	D
Zone Function 14	3222	А	Е		3254	2	Е		3284	6	Е		3314	4	Е		3371	8	Ε	3401	9	Е
Zone Function 15	3223	А	F		3255	2	F		3285	6	F		3315	4	F		3372	8	F	3402	9	F
Zone Function 16	3224	А	F		3256	2	F		3286	6	F		3316	4	F		3373	8	F	3403	9	F
Zone Function 17	3225	А	F		3257	2	F		3287	6	F		3317	4	F		3374	8	F	3404	9	F
Zone Function 18	3226	А	F		3258	2	F		3288	6	F		3318	4	F		3375	8	F	3405	9	F
Zone Function 19	3227	А	F		3259	2	F		3289	6	F		3319	4	F		3376	8	F	3406	9	F
Zone Function 20	3228	А	F		3260	2	F		3290	6	F		3320	4	F		3377	8	F	3407	9	F
Zone Function 21	3229	А	F		3261	2	F		3291	6	F		3321	4	F		3378	8	F	3408	9	F
Zone Function 22	3230	А	F		3262	2	F		3292	6	F		3322	4	F		3379	8	F	3409	9	F
Zone Function 23	3231	А	F		3263	2	F		3293	6	F		3323	4	F		3380	8	F	3410	9	F
Zone Function 24	3232	А	F		3264	2	F		3294	6	F		3324	4	F		3381	8	F	3411	9	F
Zone Function 25	3233	А	F		3265	2	F		3295	6	F		3325	4	F		3382	8	F	3412	9	F
Zone Function 26	3234	А	F		3266	2	F		3296	6	F		3326	4	F		3383	8	F	3413	9	F
Zone Function 27	3235	А	F		3267	2	F		3297	6	F		3327	4	F		3384	8	F	3414	9	F
Zone Function 28	3236	А	F		3268	2	F		3298	6	F		3328	4	F		3385	8	F	3415	9	F
Zone Function 29	3237	А	F		3269	2	F		3299	6	F		3329	4	F		3386	8	F	3416	9	F
Zone Function 30	3238	А	F		3270	2	F		3300	6	F		3330	4	F		3387	8	F	3417	9	F
		Re	эро	rts	s with F	Rest	tora	als					Re	epo	rts	wi [.]	thout F	ر es	toral	s Re	port	:
		Re	eport	t		Re	stora	al						-	~					Address		alue
	Ad	dress		'alu	e Ad	dress		/alu	e						Öp	er	1			3331	5	1
Low Battery	3	336			1 3	337			1						Clo	DS6	9			3332	5	2
AC Fail	3	338	3	1	2 3	339	7	' i 2	2						Pa	rtia	al Close	ł		3334	5	3

3 3 3346 First Open after Alarm System Trouble 3345 3335 5 4 3 7 3207 3 4 3208 7 Exit Error 5 4 3348 5 Keypad Fire 5 3 7 3350 3351 5 3349 5 6 System Walk Test Recent Closing 3 7 3352 6 3353 6 3239 5 7 Fire Walk Test Keypad Emergency 3 7 3355 7 5 3354 7 3240 8 Low Temperature **Keypad Panic** Duress 3333 5 9 3356 3 8 3357 7 Dirty Smoke Chamber 8 Report Unsuccessful Report Successful Address Address Value Value Е F 3341 F 3342 F Remote Program 3343 Е F 3344 F F Local Program

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12.2 BFSK Format

Suggested Values

Reports with Restorals

	Rep	oort		Restoral Ti			Tro	Trouble			Trouble I	Rest	oral	By	pass		Bypass F	Resto	ral	
	Address	Va	ue	Address	Va	ue	ı r	Address	Va	ue	1	Address	Va	ue	Address	Value		Address	Valu	Je
Zone Function 1	3209	1	0	3241	Е	1		3271	F	1		3301	Е	1	3358	F 1		3388	Е	1
Zone Function 2	3210	2	0	3242	Е	2		3272	F	2		3302	E	2	3359	F 2	2	3389	Е	2
Zone Function 3	3211	3	0	3243	Е	3		3273	F	3		3303	Е	3	3360	F 3	3	3390	Е	3
Zone Function 4	3212	4	0	3244	E	4		3274	F	4		3304	E	4	3361	F 4	ŀ	3391	Е	4
Zone Function 5	3213	5	0	3245	Е	5		3275	F	5		3305	Е	5	3362	F 5	5	3392	Е	5
Zone Function 6	3214	6	0	3246	E	6		3276	F	6		3306	Е	6	3363	F 6	5	3393	Е	6
Zone Function 7	3215	7	0	3247	Е	7		3277	F	7		3307	Е	7	3364	F 7	7	3394	Е	7
Zone Function 8	3216	8	0	3248	E	8		3278	F	8		3308	Е	8	3365	Fξ	3	3395	Е	8
Zone Function 9	3217	8	0	3249	Е	8		3279	F	0		3309	Е	8	3366	FC)	3396	Е	8
Zone Function 10	3218	8	0	3250	Е	8		3280	F	0		3310	Е	8	3367	FC)	3397	Е	8
Zone Function 11	3219	8	0	3251	Е	8		3281	F	0		3311	Е	8	3368	FC)	3398	Е	8
Zone Function 12	3220	8	0	3252	Е	8		3282	F	0		3312	Е	8	3369	FC)	3399	Е	8
Zone Function 13	3221	8	0	3253	Е	8		3283	F	0		3313	Е	8	3370	FC)	3400	Е	8
Zone Function 14	3222	8	0	3254	Е	8		3284	F	0		3314	Е	8	3371	FC)	3401	Е	8
Zone Function 15	3223	8	0	3255	Е	8		3285	F	0		3315	Е	8	3372	FC)	3402	Е	8
Zone Function 16	3224	8	0	3256	Е	8		3286	F	0		3316	Е	8	3373	FC)	3403	Е	8
Zone Function 17	3225	8	0	3257	Е	8		3287	F	0		3317	Е	8	3374	FC)	3404	Е	8
Zone Function 18	3226	8	0	3258	Е	8		3288	F	0		3318	Е	8	3375	FC)	3405	Е	8
Zone Function 19	3227	8	0	3259	Е	8		3289	F	0		3319	Е	8	3376	FC)	3406	Е	8
Zone Function 20	3228	8	0	3260	Е	8		3290	F	0		3320	Е	8	3377	FC)	3407	Е	8
Zone Function 21	3229	8	0	3261	Е	8		3291	F	0		3321	Е	8	3378	FC)	3408	Е	8
Zone Function 22	3230	8	0	3262	Е	8		3292	F	0		3322	Е	8	3379	FC)	3409	Е	8
Zone Function 23	3231	8	0	3263	Е	8		3293	F	0		3323	Е	8	3380	FC)	3410	Е	8
Zone Function 24	3232	8	0	3264	Е	8		3294	F	0		3324	Е	8	3381	FC)	3411	Е	8
Zone Function 25	3233	8	0	3265	Е	8		3295	F	0		3325	Е	8	3382	FC)	3412	Е	8
Zone Function 26	3234	8	0	3266	Е	8		3296	F	0		3326	Е	8	3383	FC)	3413	Е	8
Zone Function 27	3235	8	0	3267	Е	8		3297	F	0		3327	Е	8	3384	FC)	3414	Е	8
Zone Function 28	3236	8	0	3268	Е	8		3298	F	0		3328	Е	8	3385	FC)	3415	Е	8
Zone Function 29	3237	8	0	3269	Е	8		3299	F	0		3329	Е	8	3386	FC)	3416	Е	8
Zone Function 30	3238	8	0	3270	Е	8		3300	F	0		3330	Е	8	3387	FC)	3417	Е	8
			-			-				-							- I			
		Re	pol	ts with H	kesi	ora	ais					Re	epo	rts v	vithout	Resto	rals	Re Address	port Va	lue
	Δd	R6 dress	port V:	alue Ad	Res dress	stora V	ai Value							Op	en			3331	В	F
Low Batterv	3	336	F	9 3	337	Ì)						Clo	se			3332	С	F
AC Fail	3	338	F	A 3	339	E	E A	4						Pa	tial Close	9		3334	С	F
System Trouble	3	345	F	D 3	346	E	E [)						Fire	st Open a	fter Ala	arm	3335	D	F
Kevpad Fire	3	207	1	0 3	208	E	1							Exi	t Error			3348	0	0
System Walk Test	3	350	7	1 3	351	7	2	2						Re	cent Clos	ina		3349	0	0
Fire Walk Test	3	352	7	3 3	353	7	' _	ļ						Ke	vpad Eme	ergenc	v	3239	0	0
Low Temperature	3	354	3	1 3	355	3	3 2	2						Ke	/pad Enn	ic	,	3240	9	0
Dirty Smoke Cham	ber 3	356	3	3 3	357	3	3 4	1						Du	ress			3333	A	0
						ئے ب			Rep	oort S	Suco	cessful	Re	port L	Insuccessfu	I				
						_			Add	lress		/alue	A	ddres	s Value	I				
				Ren	note	Pro	gra	m	33	341) ()	Ļ	3342	0 0					
				Loca	al Pr	ogr	am		33	343) 0	Ŀ	3344						
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12.3 Personal Dialing Format

This is a 2 pulse per second (PPS) 0/2 (no account code/2 report event digits) format intended for manual reception, i.e. the panel will call a phone number where a person is expected to answer. After a call is made, the panel will start sending the first report. If the report was a "Communication Test" and Program Address 3340 had a value of 12 the person answering the phone would hear 1 pulse followed by a 1 second delay, then 2 pulses followed by a 3 second delay. This sequence will repeat for 60 seconds per call. After the 60 seconds the panel will hang up and call again if any reports still remain to be sent.

A way to expedite this report process would be to provide an acknowledge to the panel that the report was heard and understood by the receiving party. When an acknowledge is provided, the panel will start sending the next report or hang up if no reports remain. To provide an acknowledge, press the 1 key of the telephone keypad during the 3 second delay of the report transmission. This "Acknowledge Feature" is an enhancement that will allow the panel to send all reports in one call. If the call is not acknowledged a communication failure is sent after all dial attempts are made.

Programming the first data digit as zero will disable the report. Values 1-9 and A-F are acceptable. A zero in the second data digit will send ten pulses.

12.4 Pager Format

The Pager format allows the control panel to dial a digital pager and leave a numeric message which includes an account ID and report type. The telephone number is dialed when a report is available. At the completion of the telephone dialing, a time delay equal to 10 seconds occurs. This delay allows time to connect with the pager service, while skipping over any voice announcement. When the delay has ended, the numeric message is sent. This message includes the account number followed by up to 5 reports. If a delay time greater than 10 seconds is required, see Programming Address 4038 to adjust the delay time. In addition, increments of 3 seconds can be added by programming the "*3" character (3 second delay) at the end of the phone number in address 3159 or 3175.

For example, if you call pager number 123-4567 and it takes 20 seconds after you finished dialing before you are allowed to enter the message, the following digits should be programmed in address 3159: 1 2 3 4 5 6 7 *3 *3 *3. This will give you an overall delay of 22 seconds.

NOTE: For Pager Format, it is not advisable to use the HEX character values (*0 = A, *1 = B, *2 = C, *3 = D, *4 = E, *5 = F) in the report programming addresses 3207 through 3419. These characters could cause unpredictable results when sent to a pager system that only expects numeric characters between 0-9. This is the reason that this format will not allow an associated user number with an open and close report.

The following are recommended programming values for addresses 3207 through 3419 when using the Pager format.

NOTE: The Pager format is an open-loop format which has no acknowledge tone. There is no indication at the control panel that the signal has been sent. Therefore, the Pager format is not recommended as the primary communication method.



Refer to the worksheet on the next page for Reports with Restorals. The values for each report can be determined by the user in conjunction with the installer. Again, the digit "0" (zero) should **not** be used as the reporting (first) digit as it will affect other reports in the system. Examples have been provided for possible reporting values, but the values can be set to the user's preferences.

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Pager Format (Continued) Suggested Values

Reports with Restorals

	Re	port			Restoral			Trouble			Trouble Restoral Bypass				E	Bypass Restoral							
	Address	Va	lue		Address	Va	lue		Address	Va	lue	ŕ	Address	Va	lue	1	Address	Va	lue	ŕ	Address	Val	ue
Zone Function 1	3209	1	1		3241	6	4		3271	3	1	_	3301	6	5		3358	6	1	-	3388	6	6
Zone Function 2	3210	1	2		3242	6	4		3272	3	2		3302	6	5		3359	6	1	-	3389	6	6
Zone Function 3	3211	1	3		3243	6	4		3273	3	3		3303	6	5		3360	6	1		3390	6	6
Zone Function 4	3212	1	4		3244	6	4		3274	3	4		3304	6	5		3361	6	1		3391	6	6
Zone Function 5	3213	1	5		3245	6	4		3275	3	5		3305	6	5		3362	6	1	_	3392	6	6
Zone Function 6	3214	1	6		3246	6	4		3276	3	6		3306	6	5		3363	6	1	_	3393	6	6
Zone Function 7	3215	1	7		3247	6	4		3277	3	7		3307	6	5		3364	6	1		3394	6	6
Zone Function 8	3216	1	8		3248	6	4		3278	3	8		3308	6	5		3365	6	1		3395	6	6
Zone Function 9	3217	1	9		3249	49 6 4 3279 3 9 3309 6 5 3366 6 1									3396	6	6						
Zone Function 10	3218	2	0		3250	6	4		3280	4	0		3310	6	5		3367	6	2		3397	6	6
Zone Function 11	3219	2	1		3251	6	4		3281	4	1		3311	6	5		3368	6	2		3398	6	6
Zone Function 12	3220	2	2		3252	6	4		3282	4	2		3312	6	5		3369	6	2		3399	6	6
Zone Function 13	3221	2	3		3253	6	4		3283	4	3		3313	6	5		3370	6	2		3400	6	6
Zone Function 14	3222	2	4		3254	6	4		3284	4	4		3314	6	5		3371	6	2		3401	6	6
Zone Function 15	3223	2	5		3255	6	4		3285	4	5		3315	6	5		3372	6	2		3402	6	6
Zone Function 16	3224	2	6		3256	6	4		3286	4	6		3316	6	5		3373	6	2		3403	6	6
Zone Function 17	3225	2	7		3257	6	4		3287	4	7		3317	6	5		3374	6	2		3404	6	6
Zone Function 18	3226	2	8		3258	6	4		3288	4	8		3318	6	5		3375	6	2		3405	6	6
Zone Function 19	3227	2	9		3259	6	4		3289	4	9		3319	6	5		3376	6	2	Ī	3406	6	6
Zone Function 20	3228	3	0		3260	6	4		3290	5	0		3320	6	5		3377	6	2		3407	6	6
Zone Function 21	3229	3	0		3261	6	4		3291	5	1		3321	6	5		3378	6	3		3408	6	6
Zone Function 22	3230	3	0		3262	6	4		3292	5	2		3322	6	5		3379	6	3		3409	6	6
Zone Function 23	3231	3	0		3263	6	4		3293	5	3		3323	6	5		3380	6	3		3410	6	6
Zone Function 24	3232	3	0		3264	6	4		3294	5	4		3324	6	5		3381	6	3	Ī	3411	6	6
Zone Function 25	3233	3	0		3265	6	4		3295	5	5	Ī	3325	6	5		3382	6	3		3412	6	6
Zone Function 26	3234	3	0		3266	6	4		3296	5	6		3326	6	5		3383	6	3		3413	6	6
Zone Function 27	3235	3	0		3267	6	4		3297	5	7		3327	6	5		3384	6	3		3414	6	6
Zone Function 28	3236	3	0		3268	6	4		3298	5	8		3328	6	5		3385	6	3	Ī	3415	6	6
Zone Function 29	3237	3	0		3269	6	4		3299	5	9		3329	6	5		3386	6	3		3416	6	6
Zone Function 30	3238	3	0		3270	6	4		3300	6	0		3330	6	5		3387	6	3		3417	6	6
				-																ц. Г.			
		R	-por	t te		Res	stor	ais al					Re	po	rts	WI	thout F	kes	ora	IS	Address	<u></u>	alue
	Ad	Idress	<u>s_v</u>	/alu	<u>e Ado</u>	dress		/alue	<u>ə _</u>						Op	ber	n				3331	9	0
Low Battery	3	336	7	· (0 33	337	8	3 (0						Cl	ose	Э				3332	9	1
AC Fail	3	338	7	•	1 33	339	8	} '	1						Pa	rtia	al Close				3334	9	2
System Trouble	3	345	7		2 33	346	8	3	2						Fir	st	Open at	fter /	Alarn	n	3335	9	3
Keypad Fire	3	207	7		3 32	208	8	3 (3						Ex	it E	Error			j	3348	6	7
System Walk Test	3	350	7		4 33	351	8	3 4	4						Re	ece	nt Closi	ng			3349	9	4
Fire Walk Test	3	352	7	· Į	5 33	353	8	3 5	5						Ke	yp	ad Eme	rgei	псу		3239	9	5
Low Temperature	3	354	7	· (6 33	355	8	3 (6						Ke	yp	ad Pani	с		ľ	3240	9	6
Dirty Smoke Charr	nber 3	356	7	· ·	7 33	357	8	3	7						Dι	ire	SS			ĺ	3333	9	7
			_							Rep	port S	Succ	essful /aluc	Re	port	Uns	Successfu	I					
					Pom	note	Dro	arc	m	22	341	۷ R		A	3341	22	7 8						
						al Dr	- 10 00r	yrc am	4111	32	343	R	3 9	H	3344	1	7 9						
		~ (J					<u>الـٰ</u>						0.63	•	<u> </u>			
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13.0 Report Programming - Values Sent

13.1 SIA Formats

Data Digit 2 value	SIA Report	Explanation
1	PA	Panic Alarm
2	PR	Panic Restore
3	QA	Emergency Alarm
4	QR	Emergency Restore
5	TA	Tamper Alarm
6	TR	Tamper Restore
7	UA	Untyped Zone Alarm
8	UR	Untyped Zone Restore
9	UT	Untyped Zone Trouble
*0	UJ	Untyped Trouble Restore
*1	YP	Power Supply Trouble
*2	YQ	Power Supply Restore
*3	YX	Service Required

	S	A		SIA
Reports	eve co	ent de		data field
Burglary alarm for a zone	В	А	[Zone Number
Fire alarm for a zone	F	А		Zone Number
Waterflow alarm for a zone	S	А		Zone Number
Supervisory for a zone	S	S		Zone Number
Keypad fire (A)	F	А		000
Keypad fire restoral (A)	F	R		000
Keypad emergency (B)	Q	А		None
Keypad panic (C)	Ρ	А		None
Burglary restoral for a zone	В	R		Zone Number
Fire restoral for a zone	F	R		Zone Number
Waterflow restoral for a zone	S	R		Zone Number
Supervisory restoral for a zone	S	J		Zone Number
Burglary trouble for a zone	В	Т		Zone Number
Burglary trouble restoral	В	J		Zone Number
Fire trouble for a zone	F	Т		Zone Number
Fire trouble restoral	F	J		Zone
Waterflow trouble for a zone	F	Т		Zone
Supervisory trouble for a zone	F	Т		Zone
Burglary Zone Bypass	В	В		Zone
Burglary Zone Bypass restoral	В	U		Zone
24 Hour Zone Bypass	В	В		Zone
24 Hour Zone Bypass restoral	В	U		Zone
Keypad Tamper	Е	Х		None
Keypad Tamper restoral	Е	R	-	None
Tamper RF zone	Т	Т		Zone
Tamper, Alarm RF zone	В	А		Zone
Tamper restoral RF zone	В	R		Zone
Low Battery RF zone	Х	Т		Zone
Low Battery restoral RF zone	В	R		Zone
Open report	0	Р		User
Close report	С	L		User
Duress report	н	А		000
Partial close report	С	G		User
First open after alarm (cancel) report	0	R		None
Low battery	Y	Т		None
Low battery restoral	Y	R		None
AC failure	А	т		None
AC failure restoral	А	R		None
Octal relay fault report	Е	Т		None
Octal relay restoral	E	R		None
Exit error report	Е	Е	-	None
Recent closing report	С	R		None
System walk test start report	т	S		None
System walk test end report	т	Е		None
			I L	

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13.1 SIA Formats	(Continued)
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IA Formats (Continued)	Reports	SI eve co	A ent de	SIA data field
	Fire walk test report	F	I	None
	Fire walk test restoral	F	К	None
	Dirty Smoke Chamber report	М	С	Zone Number
	Dirty Smoke Chamber restoral	М	0	Zone Number
	Mux. Smoke low temperature report	М	F	Zone
	Mux. Smoke low temperature restoral	М	R	Zone
	Automatic system normal test report	R	Р	None
	Manual communicator test report	R	Х	None
	Remote programming successful report	R	S	None
	Remote programming failure report	R	U	None
	Local programming successful report	Y	G	None
	Local programming failure report	Y	F	None
	Communication failure report	Y	С	None
	Communication restoral	Y	к	None
EEPROM chec	ksum failure or keypad supervision failure report	E	т	None
EEPROM (checksum restoral or keypad supervision restoral	F	R	None
	Multiplex hus fault	F	т	None
	Multiplex bus restoral	-	P	Nono
	Radio receiver tamper		8	Receiver
	Radio receiver tamper restoral	^ V	3	Number Receiver
		~ 	J	Number Receiver
		X	Q	Number
		X	н	Number
	Radio receiver trouble report	X	Q	Number
	Radio receiver trouble restoral	X	н	Number
	RF Zone Missing	Т	T	Number
	Aux. power fault report	Y	Р	None
	Aux. power restoral	Y	Q	None
	Ground fault report	U	Т	None
	Ground fault restoral	U	J	None
	Automatic system off normal test report	R	Р	None
	Phone line 1 fault report	L	Т	None
	Phone line 1 restoral	L	R	None
	Phone line 2 fault report	L	Т	None
	Phone line 2 restoral	L	R	None
	DS7416i fault report	Υ	S	See 8.13.6 Error Displays
	DS7416i fault restoral	Υ	к	See 8.13.6 Error Displays
	Bell fault report	Е	Т	None
	Bell fault restoral	Е	R	None
	RAM fault report	Е	Т	None
	RAM fault restoral	Е	R	None
	ROM fault report	Е	т	None
	ROM fault restoral	Е	R	None
	Serial interface fault report	V	т	None
	Serial interface restoral	V	R	None
	Aux. relav fault report	Е	Т	None
	Aux. relay restoral	Е	R	None
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13.2	CID Formats	CID	Ç	CID		CID	CID
	Reports	event code	d fi	lata ield	Reports	event code	data field
	Fire alarm for a zone	110	Z Nu	Zone umber	Keypad Tamper	341	None
	Fire restoral for a zone	110 Restoral	Z Nu	Zone umber	Keypad Tamper restoral	341 Restoral	None
	Keypad fire (A)	110	(000	Radio receiver tamper	341	Receiver Number
	Keypad fire restoral (A)	110 Restoral	(000	Radio receiver tamper restoral	341 Restoral	Receiver Number
	Waterflow alarm for a zone	113	Z Nu	Zone umber	Radio receiver jammed	344	Receiver Number
	Waterflow restoral for a zone	113 Restoral	Z Nu	Zone umber	Radio receiver jammed restoral	344 Restoral	Receiver Number
	Duress report	121	(000	Phone line 1 fault report	351	None
	Keypad emergency (B)	122	N	lone	Phone line 1 restoral	351 Restoral	None
	Keypad panic (C)	123	N	None	Phone line 2 fault report	352	None
	Burglary alarm for a zone	130	Z Nu	Zone umber	Phone line 2 restoral	352 Restoral	None
	Burglary restoral for a zone	130 Restoral	Z Nu	Zone umber	*The 2-digit #89 display System DS7416i fault report*	353	See 15.4 Gen Sys Prob
	Tamper, Alarm RF zone	130	Z Nu	Zone umber	CID data field for DS7416i fault DS7416i fault restoral*	353 Restoral	See 15.4 Gen Sys Prob
	Low Battery restoral RF zone	130 Restoral	Z Nu	Zone umber	Communication failure report	354	None
	Mux. Smoke low temperature report	159	Z Nu	Zone umber	Communication restoral	354 Restoral	None
	Mux Smoke low temperature restoral	159 Restoral	Z Nu	Zone umber	Tamper restoral RF zone	370 Restoral	Zone Number
	Supervisory for a zone	200	Z Nu	Zone umber	Burglary trouble for a zone	370	Zone Number
	Supervisory restoral for a zone	200 Restoral	Z Nu	Zone umber	Burglary trouble restoral	370 Restoral	Zone Number
	Aux. power fault report	300	N	None	Fire trouble for a zone	373	Zone Number
	Aux. power restoral	300 Restoral	N	None	Fire trouble restoral	373 Restoral	Zone Number
	AC failure	301	N	None	Waterflow trouble for a zone	373	Zone Number
	AC failure restoral	301 Restoral	N	None	Supervisory trouble for a zone	373	Zone Number
	Low battery	302	N	None	RF Zone Missing	381	Zone Number
	Low battery restoral	302 Restoral	N	lone	Tamper RF zone	383	Zone Number
	RAM fault report	303	N	None	Low Battery RF zone	384	Zone Number
	RAM restoral	303 Restoral	N	None	Dirty Smoke Chamber report	385	Zone Number
	ROM fault report	304	N	None	Dirty Smoke Chamber restoral	385 Restoral	Zone Number
	ROM restoral	304 Restoral	N	None	Open report	401	User Number
	Local programming successful report	306	N	None	Close report	401 Restoral	User Number
	Local programming failure report	306 Restoral	N	None	Recent closing report	405	None
	Ground fault report	310	N	None	First open after alarm (cancel) report	406	None
	Ground fault restoral	310 Restoral	N	None	Remote programming successful report	412	None
	Aux. relay fault report	320		004	Remote programming failure report	413	None
	Aux. relay restoral	320 Restoral		004	Partial close report	456 Restoral	User Number
	Bell fault report	321		003	Exit error report	457	None
	Bell restoral	321 Restoral		003	Burglary Zone Bypass	573	Zone Number
	Octal relay fault report	330	(005	Burglary Zone Bypass restoral	573 Restoral	Zone Number
	Octal relay restoral	330 Restoral	(005	24 Hour Zone Bypass	573	Zone Number
	Keypad supervision failure report	330	N	None	24 Hour Zone Bypass restoral	573 Restoral	Zone Number
	Keypad supervision restoral	330 Restoral	N	None	Manual communicator test report	601	None
	Multiplex bus fault	333	N	None	Automatic system normal test report	602	None
	Multiplex bus restoral	333 Restoral	N	None	Automatic system off normal test report	602	None
	Radio receiver trouble report	333	Re	eceiver	Fire walk test report	604	None
	Radio receiver trouble restoral	333 Restoral	Re	eceiver	Fire walk test restoral	604 Restoral	None
	Serial interface fault report	336	N	None	System walk test start report	607	None
	Serial interface restoral	336 Restoral	N	None	System walk test end report	607 Restoral	None
		restoral				Nesturdi	

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14.0 Multiplex Zone Addressing Guide

Before installing a multiplex device, its address and other information must be programmed into the control panel. (To disable or remove a multiplex point, set the program address for 00 [see Section 10.4]).



If using a DS7436 Multiplex Expansion Module, programming **must** be done using bus "A."

- Perform the following:Program the control panel.
- Refer to sections 10.2-10.5, Zone Programming.
 - These sections allow you to define the Multiplex Zone's address (zone number), its type (single or multiple zone input device, a DS7465, a Multiplex Smoke or a Multiplex Smoke with a Low Temperature Alarm), which zone or output function it will follow (1-24) and its partition (1-8).
 - <u>For example:</u> Program zone 9 to be a single zone input device (MX950) that follows zone function 1 and is in partition 1.
 - Procedure: Enter the programmer's mode.
 - Enter address 0039. Enter the data digits as [0] and [1] followed by the [#] button.
 - Enter address 0291.
 - Enter the data digits as [0] and [0] followed by the [#] button.
 - Exit the programmer's mode.
- Program the BusLoc® feature.

At this point, you must decide whether or not to use the BusLoc[®] feature.

BusLoc[®] is a proprietary method of tying the multiplex zones to the control panel to prevent the system from being taken over. Using BusLoc[®] will program an invisible identification code into the multiplex zones.

- **NOTE:** If using the DS7432 8-Input Remote Module or the DS7433 8-Input Direct Module, the BusLoc[®] feature can not be used.
 - If you choose to use the BusLoc® feature, program a 5-digit code at programming address 9999.

It is very important to save this code under lock and key. If you need to replace the control panel, you will have to program it with the same BusLoc[®] code as the previous panel or the multiplex devices will not match codes with the new control panel.

For example: Program the BusLoc® code to be 54321.

Procedure: Enter the programmer's mode. Enter address 9999. Enter the data digits as [5], [4], [3], [2], and [1] followed by the [#] button. Exit the programmer's mode.

Once the pre-programming is done, you are ready to program the multiplex devices. Perform the following:

- Disconnect all multiplex devices from the DS7430.
- Program the multiplex devices through the control panel. Perform the following:
 - Enter the programmer's mode.
 - Enter the multiplex programming mode. Do this by entering [9] [9] [9] [5] followed by the [#] button.

- The control will then take a few seconds to check the multiplex connection to confirm nothing is connected to it. The display will show the following:



- The display will then call-up the first zone you have preprogrammed to be a multiplex zone. To access a different zone, press the [Reset/*] key, then enter the three digit value of the zone you want. The display will show the following:



Before you do anything else, reconnect the multiplex device (that coincides with the displayed zone) to the multiplex bus of the DS7430.

For DS7465s and Multiple Input devices, pressing the [#] button now will program these devices to the control panel. Remember, these devices take up two addresses. When address 009 (for example) is a DS7465, pressing the [#] button now will program both addresses 009 and 010.

For Single Input devices, press the [#] button to continue programming. The display asks whether you are programming a sensor or a contact; it will show the following:



If you are programming a sensor, press the [4] button to program these devices to the control panel. If you are programming a contact, press the [6] button to program these devices to the control panel.

- If the device is successfully programmed, the keypad will sound a single beep and increment to the next zone (if there is one) pre-programmed as a multiplex zone.



Disconnect the device you just programmed and connect the next device (that belongs to the displayed zone) to the multiplex bus of the DS7430 and press the [#] button. Continue programming.



24-hour zones will alarm when you exit the programmer's mode. Alarm reports for these zones will be sent if they have been programmed. If you do not want these reports sent, disconnect power from the system now by unplugging the transformer and removing the red battery lead. Do not reconnect power until all zones have been installed and connected to the multiplex bus.

- If no other zones have been pre-programmed, the display will show the following:



- You may now exit the Zone Programmer's mode by pressing the [*/Reset] button for 2 seconds. This brings you back to the Programmer's Mode. To exit the Programmer's Mode, press the [*/Reset] button for 2 seconds.
- If the zone is unsuccessfully programmed, the keypad will sound a three-beep error tone.

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15.0 Troubleshooting Guide

15.1 Keypad Problems

Symptom	Probable Cause	Possible Solution						
Entry Error: Please Re-enter will display on keypad. A three beep error tope will sound continuously	 a) Two or more keypads share the same address. 	 a) Install keypad jumper properly in back of keypads. 						
tone win sound continuously.	b) The DS7430 or DS7433 is installed in the wrong pins.	 b) Be sure the DS7430 or DS7433 is installed properly. 						
Keypad displays Not Programmed , See Instal Guide , sounder is on and the keynad does not operate	a) The keypad not addressed properly.	 a) Install the keypad jumper properly in the back of the keypad. 						
the Reypart does not operate.	b) The keypad is not programmed properly.	 b) Check keypad programming addresses 3131- 3138. 						
	c) Keypads 11-15 are not properly configured.	 c) Check keypad addresses 11-15. System will only see keypads on the options bus. 						
Keypad displays Ready to arm, partition 1 when using only one partition.	The keypad is programmed as a Master keypad.	Master keypads can only be used on multi-partition systems. Program the keypad as a standard keypad.						
Keypad displays System Fault ,	a) Keypad wiring error.	a) Check wiring.						
not operate.	 b) Keypad(s) assigned to wrong or non- existent partition. 	 b) Assign the keypad(s) to correct partition. If none of the keypads are correctly assigned, re-enable keypad 1 by shorting the program contacts in the lower right corner of the main panel board. This will force program mode and assign keypad 1 as alpha, non-master to partition 1. 						
	c) The microprocessor isn't running.	c) Disconnect battery and any aux. power load. If the microprocessor has shut down, aux. power will read approx. 11.5 VDC. If the EEProm chip has been field-replaced, power down AC and battery, and check for bent or mis-inserted pins; Otherwise, replace the panel.						
Keypad alpha display is locked up, but the keys still function.	The keypad is enabled, but as an LED keypad.	Enter the program mode at the keypad and input the correct sequence to re-enable it as an alpha keypad. Care must be taken, since there will be no visual feedback to verify programming until the keypad is properly enabled.						
Can't read back history with # 89	a) Entering from Master keypad.	a) First enter Single Partition Mode.						
	b) Not using a PIN with test authority.	b) Use a PIN with test authority.						
In history, the Read-back for the A, B, and C keys shows: A = Fire B = Emergency C = Panic But, the Central Station transmissions display B as Silent Panic and C as Audible Panic.	Formats display information regarding the B and C keys differently. In Contact ID: $A = Fire$ B = Silent Panic C = Audible Panic In SIA: $A = Fire$ B = Emergency C = Panic	Discrepancy exists in the definition of these keys in the two formats. Whatever the keys are programmed for in the panel, that is what will be sent.						
Can not perform a zone test (#81).	a) Entering from a Master keypad.b) Not using a PIN with test authority.	a) Zone test is not available from a Master keypad.b) Use a PIN with test authority.						
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Keypad Problems (Continued)								
Symptom	Probable Cause	Possible Solution						
Chime Mode (#7) does not work when a zone is faulted.	a) Not activating for interior zones.	 a) Chime mode only activates for perimeter zones Chime mode must be programmed. Also, if the perimeter zone has trouble enabled (trouble on open), the chime won't work if that zone is opening. 						
	 b) The keypad is not assigned to the same partition as the zone being activated. 	 b) Chime mode will only activate the sounder on keypads that are assigned to the same partition as the zone. 						
Some functions won't work on a Master keypad.	Some functions require you to enter single partition mode when using a Master keypad.	 The following commands require that you are in Single Partition Mode when entering from a Master keypad: History read-back Chime mode Checking zone status Checking zone trouble status (after #87 - Master keypad will show only partition name) Bypassing zones 						

15.2 Reporting Problems

Symptom	Probable Cause	Possible Solution				
Won't send open or close reports.	Not programmed correctly.	Check addresses: 3331, 3332, 3334, and 3333.				
Reports for partitions 2-8 are being sent with partition 1's reporting ID.	The account codes for 2-8 are not pro- grammed or are not programmed correctly.	Check addresses: 3429-3459.				
Not getting AC power fail reports.	a) AC power fail messages are sent only with other reports, such as low battery.	 a) Try forcing another report to send when AC is not present. 				
	 b) Check AC report offset (3338). If 00, AC report will work like above, if another number, AC report will be delayed. 	 b) Wait until the delay times out or set to a lower number if desired. 				
Panel never transmits history to	a) Not programmed to send history.	a) Check programming.				
	b) Time and date not set.	b) Verify that the time in the panel is set.				
The communicator test report is not being sent.	a) Report not programmed properly.	a) Check programming addresses 4022, 4023, 4026, and 3340.				
	b) There was a control problem at the time the report should have been sent. If this is the case, the communicator test report will not be sent. Instead, the control will send the "System Off Normal" report.	 b) Program "System Off Normal" report in address 3347. 				

15.3 Zone Problems

Symptom	Probable Cause	Possible Solution
Fire Alarm displays on keypad but no zone numbers are displayed.	In Commercial Fire Mode, fire alarms must be silenced before the zone number will display.	Enter a valid disarm PIN and press #, then enter a valid disarm PIN and press # again to display the zones.
Every other zone displays Not Ready.	Zone Programming is incorrect.	Program as a multiple zone input for DS7432 or DS7460, a single zone input for contacts and sensors, or program as a DS7465.
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Zone Problems (Continued)				
Symptom	Probable Cause	Possible Solution		
Zones 9 and above show Not Ready , Zone Trouble .	a) The multiplex expansion module is not installed properly.	a) Make sure the multiplex expansion module is seated properly in the upper pins on the DS7400Xi circuit board.		
Never disconnect the power when in the programming mode.	b) Multiplex wiring is missing or is not installed properly.	b) Check wiring and perform a system reset.		
Multiplex Bus or have the DS7430 or DS7436 in the	c) 8-Input remote module DIP switches are not set properly.	c) Correctly set the DIP switches for the 8-Input remote modules.		
programming mode when powering up or down	d) 8-Input remote module covers are removed.	d) Replace covers or install the tamper bypass jumper.		
	e) The BusLoc® code is set incorrectly or has not been programmed into modules.	 e) BusLoc® can not be used with 8-Input remote modules. If using 8-Input modules, remove the BusLoc® code. 		
		If using two-input remote modules or the DS7465, be sure to use BusLoc® when programming. If not using BusLoc®, be sure to remove the BusLoc® code from address 9999.		
	f) Zone Programming is incorrect.	 Program as a multiple zone input for DS7432 or DS7460, a single zone input for contacts and sensors, or program as a DS7465. 		
	g) Multiplex module not programmed.	g) Program the module.		
	 h) Multiplex Bus voltage is 12VDC or greater. (Normal is approximately 8 to 10VDC.) 	 h) Two modules are programmed with the same address. The problem will only occur when both modulees are off normal. Isolate the duplicate module by disconnecting sections of the bus and performing a [PIN] + [System Reset]. Reprogram modules. 		
		The system is in the programming mode. Exit the programming mode. OR Zones have been added to a system protected		
		by Busloc®. Clear Busloc®.		
	i) Multiplex Bus voltage is 5VDC or less.	i) There is a short on the multiplex bus. OR		
		There is a bad module on the bus. OR		
		One or more modules on the bus are connected backwards - reverse polarity.		
Invisible or silent zone activates alarm output.	(Normal is approximately 8 to 10VDC.) The output is programmed as "latch on alarm" (0).	Program the output to follow zone alarms (6).		
Keypad displays Fire Trouble , but does not indicate any zones.	A ground fault condition exists.	See system trouble: Ground fault.		
Keypad displays Not Ready , but no zone number is displayed.	An invisible zone is not ready.	Press [PIN] + [OFF] to display the zone number of the invisible zone that is not ready.		
15.4 General System Prob	lems			
Symptom	Probable Cause	Possible Solution		
How to set the programming values to the factory default.	Enter a value of 01 in address 4058.	Caution: Only enter a value of 01 in address 4058 when you are sure you want to default the programming. Doing so will immediately erase all programming.		
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General System Problems (Continued)							
Symptom	Probable Cause	Possible Solution					
Power LED is flashing, keypad displays Control Trouble Press #87.	A control trouble exists.	Press #87 to determine the trouble condition.					
#87 display = Oct. Relay Fault #89 display = System Fault 20	a) The octal relay module (DS7488) is defective or the wiring to the module is defective.b) There is no DS7488 or a DS7488 has been removed from the system	a) Check the wiring to the module.b) Enter, then exit programming mode. This will rescan the options bus and clear the problem.					
#87 display = Multiplex Bus Fault	The Multiplex Bus is defective or shorted.	Check wiring for shorts.					
Can't reset to factory default.	Keypad programming access is set to PARTIAL from Remote programmer.	Change setting to FULL from the Remote programmer.					
#87 display = RAM Fault #89 display = System Fault 01 or		 a) An EEProm fault can be caused by disconnecting power from the control while it is in program mode. In this case, enter then exit program mode to clear. 					
#87 display = ROM Fault #89 display = System Fault 02		 b) Try to clear the error at the keypad by entering a PIN then Reset. 					
or #87 display = EEProm Fault #89 display = System Fault 03		c) Remove AC and battery power, then re-apply. Remember that event history will be lost and time/date will have to be re-set.					
#09 uispiay = System Fault US		d) If error persists, return the panel to factory default programming by setting program address 4058 to "01". If the error clears, re-program the panel.					
		e) If error still persists, replace the panel.					
#87 display = Communicator Err #89 display = Report Failure X	The control has failed to communicate.	Check history #89 to determine the source: Report Failure 1 = Phone number 1 Report Failure 2 = Phone number 2 Report Failure 3 = Phone number 3 (remote programmer) Report Failure 4 = DS7416i Communications fault					
#87 display = 2Ph/Bell Fault #89 display = System Fault 10	a) The dual phone line/bell supervision module (DS7420i) is defective or the wiring to the module is defective.	a)Check the wiring to the module.					
	 b) There is no DS7420i or a DS7420i has been removed from the system. 	 b) Enter, then exit programming mode. This will re- scan the options bus and clear the problem. 					
#87 display = Line 1 Fault #89 display = System Fault 11	There is a phone line fault on line 1.	Check phone line 1 for proper operation.					
#87 display = Line 2 Fault #89 display = System Fault 12		Check phone line 2 for proper operation. If you wish to monitor only one phone line, reprogram address 4021.					
#87 display = Bell Fault #89 display = System Fault 13	There is a phone line fault on line 2.	Check the bell circuit wiring. Be sure that the end- of-line resistor is in place. If you don't wish to use the bell circuit, place an end-of-line resistor across the bell terminals.					
#87 display = Aux. Output Fault #89 display = System Fault 14	The bell circuit on the DS7420i is open or shorted. The auxiliary circuit on the DS7420i is open or shorted.	Check the auxiliary circuit wiring. Be sure that the end-of-line resistor is in place. If you don't wish to use the auxiliary circuit, place an end-of-line resistor across the auxiliary terminals. If you wish to use the auxiliary circuit but do not wish to supervise it, cut the auxiliary supervision jumper on the DS7420i.					
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General System Problems (Con	tinued)				
Symptom	Probable Cause	Possible Solution			
#87 display = Aux Power Fault	The auxiliary power output has been shorted.	Remove wiring from auxiliary power and check for shorts.			
#87 display = Keypad Fault	a) The keypad wiring is defective.	a) Check keypad operation and wiring.			
	b) A keypad is missing.	b) Install a keypad.			
	c) A keypad has been programmed, but is not intended in this system.	c) Remove from programming (3131-3138).			
#87 display = Ground Fault #89 display = System Fault 04	There is a short to ground somewhere in the system.	Disconnect field wiring from each terminal while watching the keypad display. When the keypad power LED stops flashing, you have found the wire that is causing the ground fault.			
		Note: The LED will not stop flashing if there is another system fault present.			
		If there is no keypad nearby, or another control problem exists, you can use a volt-meter to find the ground fault:			
		1) Connect the negative lead of a volt-meter to the panel ground terminal.			
		 Connect the positive terminal to the Aux Power – terminal. 			
		You should read -4.5 to -7.5 Volts DC. A reading considerably higher or lower indicates a ground fault.			
		Disconnect field wiring from each terminal while watching the meter. When the voltage reading returns to between -4.5 and -7.5 VDC, you have found the wire that is causing the ground fault.			
#87 display = AR IB Queue Full #89 display = System Fault 51	The message queue in the RF modem is full and no messages can get out to the radio network.	Check RF coverage of the unit and check for RI noisy environment.			
#87 display = AR Host Down #89 display = System Fault 52	The central station receiver has ceased to be available to the network.	Contract the central station and notify of status.			
#87 display = AR Unreg. Modem #89 display = System Fault 53	The modem is not registered through all parts of the network.	Contact the network administrators or technical service.			
#87 display = AR Power Fail #89 display = System Fault 54	There is a possible problem with the DS7416i Module.	Return for service.			
#87 display = AR Network Lost #89 display = System Fault 55	The DS7416i Module has lost contact with the radio network.	Check the location and coverage of the unit.			
#87 display = AR Modem HW Err #89 display = System Fault 56	There is a possible problem with the radio modem.	Replace the unit.			
#87 display = AR Modem SW Err #89 display = System Fault 57	The DS7416i Module is having trouble communicating with the radio modem.	Check for noisy environment and replace the unit if the problem continues.			
#87 display = AR Opt. Bus Err #89 display = System Fault 58	The panel can no longer communicate with the DS7416i Module.	Check the wiring between the DS7400Xi and the DS7416i Module.			
#87 display = AR Corrupt MSG #89 display = System Fault 59	The communication between the panel and the DS7416i Module is getting corrupted.	Check for noisy environment, and check the wiring between the DS7400Xi and the DS7416i Module.			
Unable to arm the system.	a) Zone(s) faulted.	a) Determine the cause of the problem and clear the indicated zone(s).			
	 b) If an AC failure exists, you must force arm. 	b) Enter an arming sequence, then press the Bypass key during a 5 second beep.			
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Symptom	Probable Cause	Possible Solution
#87 display = Battery Trouble	a) The battery failed a battery test.	 a) If there has just been a power failure, wait at least two hours for the battery to recharge then perform a System Reset to re-test the battery and clear the error.
	b) The battery is defective.	b) Replace the battery.
	 c) The wiring to the battery is disconnected. 	c) Check wiring.
#87 display = Zone Trouble	 a) A zone is not responding to the control panel. b) The zone is programmed for "Trouble on Open" and the loop is open. There is a power failure and the panel is operating on battery backup. If there is a general power failure, wait for the power to return. If there is not a general power failure in the building. 	 a) Check wiring to the zone. or If the zone is not to be used, remove from programming. b) If using Normally Closed contacts, re-program zone for alarm on open. or If using Normally Open contacts and trouble on open is desired, check for opens in the loop. Remove wiring and place an EOL resistor across the zone to eliminate a problem with the control. If the trouble goes away, the problem is in the wiring or in a contact connected to the zone.
#87 display = AC Power Failure	a) The transformer is unplugged.	a) Plug the transformer in.
	 b) The wiring from the transformer is defective. c) The circuit to the transformer is off or defective. d) The transformer is defective. e) In some cases, the transformer may be connected to a circuit controlled by a switch or a circuit breaker that is periodically turned off. 	 b) Check the wiring. c) Check the circuit and circuit breakers. d) Replace the transformer. e) Connect to a circuit that is not controlled this way.
Fire Alarm displays "000".	The Fire Alarm was caused by the "A" key.	Use the System Reset command to clear the display.
Fire Trouble, no zone number.	When in Commercial Fire Mode, a ground fault causes this display.	See #87 Ground Fault display for solution.
Fire Trouble zone number. Dirty	Fire zone wiring problems.	If you try to disable the zone by reprogramming it, you need to reset the control by either entering then exiting programmer's mode, or removing then restoring power to the control panel.
Chamber zone number.	A multiplex smoke detector has failed its internal sensitivity test.	Clean or replace the dirty smoke detector or chamber. DO NOT USE WATER TO CLEAN THE CHAMBER.

16.0 Program Addresses

Addres	s Description	Addres	ss Description	Addres	s Description	
0000	General Control	0063	Zone Number 33	0126	Zone Number 96	
0001	Zone Function 1	0064	Zone Number 34	0127	Zone Number 97	
0002	Zone Function 2	0065	Zone Number 35	0128	Zone Number 98	
0003	Zone Function 3	0066	Zone Number 36	0129	Zone Number 99	
0004	Zone Function 4	0067	Zone Number 37	0130	Zone Number 100	
0005	Zone Function 5	0000	Zone Number 30	0131	Zone Number 101	
0000	Zone Function Z	0009	Zone Number 40	0132	Zone Number 102	
0007	Zone Function 8	0070	Zone Number 40	0133	Zone Number 103	
0000	Zone Function 9	0077	Zone Number 42	0135	Zone Number 105	
0010	Zone Function 10	0073	Zone Number 43	0136	Zone Number 106	
0011	Zone Function 11	0074	Zone Number 44	0137	Zone Number 107	
0012	Zone Function 12	0075	Zone Number 45	0138	Zone Number 108	
0013	Zone Function 13	0076	Zone Number 46	0139	Zone Number 109	
0014	Zone Function 14	0077	Zone Number 47	0140	Zone Number 110	
0015	Zone Function 15	0078	Zone Number 48	0141	Zone Number 111	
0016	Zone Function 16	0079	Zone Number 49	0142	Zone Number 112	
0017	Zone Function 17	0080	Zone Number 50	0143	Zone Number 113	
0018	Zone Function 18	0081	Zone Number 51	0144	Zone Number 114	
0019	Zone Function 19	0082	Zone Number 52	0145	Zone Number 115	
0020	Zone Function 20	0083	Zone Number 53	0146	Zone Number 116	
0021	Zone Function 21	0084	Zone Number 54	0147	Zone Number 117	
0022	Zone Function 22	0085	Zone Number 55	0148	Zone Number 118	
0023	Zone Function 23	0086	Zone Number 56	0149	Zone Number 119	
0024	Zone Function 24	0087	Zone Number 57	0150	Zone Number 120	
0025	Zone Function 25	0088	Zone Number 58	0151	Zone Number 121	
0026	Zone Function 26	0089	Zone Number 59	0152	Zone Number 122	
0027	Zone Function 27	0090	Zone Number 60	0153	Zone Number 123	
0028	Zone Function 28	0091	Zone Number 61	0154	Zone Number 124	
0029	Zone Function 29	0092	Zone Number 62	0155	Zone Number 125	
0030	Zone Function 30	0093	Zone Number 63	0150	Zone Number 126	
0031	Zone Number 2	0094	Zone Number 65	0157	Zone Number 127	
0032	Zone Number 2	0095	Zone Number 66	0150	Zone Number 120	
0033	Zone Number 4	0090	Zone Number 67	0159	Zone Number 129	
0034	Zone Number 5	0097	Zone Number 68	0161	Zone Number 130	
0036	Zone Number 6	0099	Zone Number 69	0162	Zone Number 132	
0037	Zone Number 7	0100	Zone Number 70	0163	Zone Number 133	
0038	Zone Number 8	0101	Zone Number 71	0164	Zone Number 134	
0039	Zone Number 9	0102	Zone Number 72	0165	Zone Number 135	
0040	Zone Number 10	0103	Zone Number 73	0166	Zone Number 136	
0041	Zone Number 11	0104	Zone Number 74	0167	Zone Number 137	
0042	Zone Number 12	0105	Zone Number 75	0168	Zone Number 138	
0043	Zone Number 13	0106	Zone Number 76	0169	Zone Number 139	
0044	Zone Number 14	0107	Zone Number 77	0170	Zone Number 140	
0045	Zone Number 15	0108	Zone Number 78	0171	Zone Number 141	
0046	Zone Number 16	0109	Zone Number 79	0172	Zone Number 142	
0047	Zone Number 17	0110	Zone Number 80	0173	Zone Number 143	
0048	Zone Number 18	0111	Zone Number 81	0174	Zone Number 144	
0049	Zone Number 19	0112	Zone Number 82	0175	Zone Number 145	
0050	Zone Number 20	0113	Zone Number 83	0176	Zone Number 146	
0051	Zone Number 21	0114	Zone Number 84	0177	Zone Number 147	
0052	Zone Number 22	0115	Zone Number 85	0178	Zone Number 148	
0053	Zone Number 23	0116	Zone Number 86	0179	Zone Number 149	
0054	Zone Number 24	0117	Zone Number 87	0180	Zone Number 150	
0000	Zone Number 26	0110	Zone Number 80	0101 0192	Zone Number 151	
0050	Zone Number 20 Zone Number 27	0120	Zone Number 90	0102	Zone Number 152	
0057	Zone Number 28	0120	Zone Number 91	0183	Zone Number 153	
0050	Zone Number 29	0121	Zone Number 92	0185	Zone Number 155	
0060	Zone Number 30	0123	Zone Number 93	0186	Zone Number 156	
0061	Zone Number 31	0124	Zone Number 94	0187	Zone Number 157	
0062	Zone Number 32	0125	Zone Number 95	0188	Zone Number 158	
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0188 Zone Number 159 0224 Zone Number 224 0327 Zone 8 & 86 Partilion Assign. 0190 Zone Number 161 0225 Zone Number 225 0330 Zone 8 & 86 Partilion Assign. 0191 Zone Number 163 0226 Zone Number 226 0331 Zone 8 & 86 Partilion Assign. 0193 Zone Number 163 0228 Zone Number 227 0333 Zone 8 & 86 Partilion Assign. 0196 Zone Number 165 0280 Zone Number 165 0333 Zone 8 & 86 Partilion Assign. 0197 Zone Number 168 0261 Zone Number 233 0333 Zone 9 & 810 Partilion Assign. 0198 Zone Number 168 0263 Zone Number 233 0333 Zone 103 & 104 Partilion Assign. 0200 Number 170 0265 Zone Number 233 0333 Zone 105 & 106 Partilion Assign. 0201 Zone Number 170 0262 Zone Number 233 0342 Zone 105 & 1106 Partilion Assign. 0202 Zone Number 170 0262 Zone Number 233 0342 Zone 105 & 1106 Partilion Assign. 02012 Zone Numbe	Addres	s Description	Addres	s Descrip	otion	Address	s Description
0190 Zone Number 160 0255 Zone Number 225 0328 Zone Number 161 0266 Source Zone Number 162 0267 Zone Number 227 0330 Zone Number 163 Zone Number 162 0267 Zone Number 163 Zone Number 164 0268 Zone Number 231 0333 Zone Sumber 323 Zone Number 167 0262 Zone Number 233 Cone S 4 36 Partition Assign. 0191 Zone Number 171 0266 Zone Number 233 0333 Zone Sumber 333 Cone Sumber 173 0334 Zone Number 173 0268 Zone Number 173 0268 Zone Number 233 0341 Zone Number 173 0267 Xone Number 173 0267 Xone Number 173 0267 Xone Number 173 0268 Zone Number 173 0267 Zone Number 173 0267 Xo	0189	Zone Number 159	0254	Zone Num	nber 224	0327	Zone 81 & 82 Partition Assign.
0191 Zone Number 161 0256 Zone Number 227 0330 Zone 87 & 88 Partition Assign. 0192 Zone Number 163 0258 Zone Number 228 0331 Zone 87 & 88 Partition Assign. 0193 Zone Number 163 0258 Zone Number 228 0331 Zone 87 & 88 Partition Assign. 0196 Zone Number 163 0251 Zone Number 231 0332 Zone 87 & 88 Partition Assign. 0197 Zone Number 168 0221 Zone Number 231 0336 Zone 97 & 88 Partition Assign. 0192 Zone Number 168 0223 Zone Number 123 0336 Zone 101 & 102 Partition Assign. 0200 Zone Number 170 0265 Zone Number 235 0338 Zone 108 & 104 Partition Assign. 0201 Zone Number 171 0266 Zone Number 237 0340 Zone 108 & 110 Partition Assign. 0202 Zone Number 174 0268 Zone Number 238 0342 Zone 113 & 114 Partition Assign. 0201 Zone Number 174 0263 Zone Number 240 0344 Zone 113 & 114 Partition Assign. 0202 N	0190	Zone Number 160	0255	Zone Num	ber 225	0328	Zone 83 & 84 Partition Assign.
0192 Zone Number 162 0227 Zone Number 164 0257 Zone Number 228 0331 Zone 89 & 80 Partition Assign. 0194 Zone Number 164 0259 Zone Number 229 0332 Zone 83 & 84 Partition Assign. 0195 Zone Number 164 0259 Zone Number 230 0333 Zone 83 & 84 Partition Assign. 0196 Zone Number 169 0261 Zone Number 231 0335 Zone 89 & 80 Partition Assign. 0198 Zone Number 169 0264 Zone Number 234 0337 Zone 108 & 102 Partition Assign. 0200 Zone Number 170 0266 Zone Number 236 0338 Zone 108 & 104 Partition Assign. 0201 Zone Number 173 0268 Zone Number 236 0334 Zone 118 & 112 Partition Assign. 0202 Zone Number 173 0268 Zone Number 241 0344 Zone 118 & 112 Partition Assign. 0203 Zone Number 175 0270 Zone Number 240 0344 Zone 118 & 112 Partition Assign. 0202 Zone Number 175 0271 Zone Number 241 0344 Zone 118 & 112 Partition Assign. <td>0191</td> <td>Zone Number 161</td> <td>0256</td> <td>Zone Num</td> <td>nber 226</td> <td>0329</td> <td>Zone 85 & 86 Partition Assign.</td>	0191	Zone Number 161	0256	Zone Num	nber 226	0329	Zone 85 & 86 Partition Assign.
0193 Zone Number 163 0258 Zone Number 229 0331 Zone 01 & 82 Partition Assign. 0194 Zone Number 165 0260 Zone Number 230 0333 Zone 03 & 82 Partition Assign. 0197 Zone Number 166 0261 Zone Number 167 0334 Zone 03 & 830 Partition Assign. 0197 Zone Number 167 0262 Zone Number 231 0335 Zone 93 & 8100 Partition Assign. 0198 Zone Number 167 0264 Zone Number 236 0337 Zone 93 & 8100 Partition Assign. 0190 Zone Number 170 0264 Zone Number 236 0339 Zone 108 & 104 Partition Assign. 0200 Zone Number 171 0266 Zone Number 236 0334 Zone 118 & 110 Partition Assign. 0201 Zone Number 172 0267 Zone Number 236 0341 Zone 110 Bartition Assign. 0202 Zone Number 174 0269 Zone Number 236 0341 Zone 1110 Partition Assign. 0201 Zone Number 176 0271 Zone Number 241 0344 Zone 113 & 114 Partition Assign. 0202 Zone Nu	0192	Zone Number 162	0257	Zone Num	iber 227	0330	Zone 87 & 88 Partition Assign.
0194 Zone Number 164 0259 Zone Number 229 0332 Zone 93 & 94 Partition Assign. 0195 Zone Number 166 0260 Zone Number 731 0334 Zone 93 & 94 Partition Assign. 0197 Zone Number 166 0261 Zone Number 731 0334 Zone 97 & 80 Partition Assign. 0198 Zone Number 168 0263 Zone Number 733 0335 Zone 97 & 80 Partition Assign. 0199 Zone Number 168 0264 Zone Number 733 0335 Zone 101 & 102 Partition Assign. 0200 Zone Number 171 0262 Zone Number 733 0333 Zone 101 & 102 Partition Assign. 0201 Zone Number 171 0268 Zone Number 239 0342 Zone 111 & 112 Partition Assign. 0202 Zone Number 175 0270 Zone Number 241 0344 Zone 118 112 Partition Assign. 0202 Zone Number 176 0271 Zone Number 241 0344 Zone 118 112 Partition Assign. 0202 Zone Number 176 0274 Zone Number 243 0345 Zone 118 112 Partition Assign. 0203 Zone	0193	Zone Number 163	0258	Zone Num	ber 228	0331	Zone 89 & 90 Partition Assign.
0195 Zone Number 165 0260 Zone Number 230 0333 Zone 93 & 80 Partition Assign. 0197 Zone Number 167 0262 Zone Number 223 0335 Zone 93 & 80 Partition Assign. 0197 Zone Number 168 0263 Zone Number 723 0335 Zone 93 & 100 Partition Assign. 0190 Zone Number 168 0264 Zone Number 723 0337 Zone 103 & 102 Partition Assign. 0201 Number 171 0265 Zone Number 723 0333 Zone 103 & 106 Partition Assign. 0201 Number 173 0263 Zone Number 723 0341 Zone 107 & 106 Partition Assign. 0201 Zone Number 173 0268 Zone Number 723 0341 Zone 118 & 112 Partition Assign. 0202 Zone Number 173 0271 Zone Number 233 0341 Zone 118 & 112 Partition Assign. 0203 Zone Number 174 0271 Zone Number 243 0344 Zone 118 & 112 Partition Assign. 0204 Zone Number 178 0271 Zone Number 724 0343 Zone 128 & 129 Partition Assign. 0204 Zone N	0194	Zone Number 164	0259	Zone Num	ber 229	0332	Zone 91 & 92 Partition Assign.
0196 Zone Number 166 0261 Zone Number 231 0334 Zone 97 & 89 Partition Assign. 0197 Zone Number 168 0263 Zone Number 232 0335 Zone 97 & 89 Partition Assign. 0199 Zone Number 168 0264 Zone Number 233 0336 Zone 97 & 89 Partition Assign. 0200 Xone Number 170 0265 Zone Number 235 0338 Zone 108 & 100 Partition Assign. 0200 Zone Number 171 0266 Zone Number 236 0331 Zone 118 & 100 Partition Assign. 0201 Zone Number 171 0266 Zone Number 238 0342 Zone 118 & 110 Partition Assign. 0202 Zone Number 175 0270 Zone Number 240 0343 Zone 118 & 112 Partition Assign. 0202 Zone Number 176 0271 Zone Number 241 0344 Zone 118 & 112 Partition Assign. 0202 Zone Number 179 0274 Zone Number 243 0345 Zone 118 & 120 Partition Assign. 0212 Zone Number 181 0276 Zone Number 243 0345 Zone 118 & 120 Partition Assign. 0212 <	0195	Zone Number 165	0260	Zone Num	ber 230	0333	Zone 93 & 94 Partition Assign.
0198 Zone Number 167 0262 Zone Number 232 0335 Zone 98 & 100 Partition Assign. 0198 Zone Number 169 0264 Zone Number 234 0337 Zone 101 & 102 Partition Assign. 0200 Zone Number 170 0266 Zone Number 236 0338 Zone 101 & 102 Partition Assign. 0201 Zone Number 171 0266 Zone Number 236 0338 Zone 101 & 101 Partition Assign. 0202 Zone Number 173 0268 Zone Number 238 0341 Zone 118 111 Partition Assign. 0204 Zone Number 173 0268 Zone Number 241 0343 Zone 118 114 Partition Assign. 0206 Zone Number 176 0277 Zone Number 241 0344 Zone 118 114 Partition Assign. 0208 Zone Number 176 0277 Zone Number 243 0344 Zone 118 112 Partition Assign. 0211 Zone Number 180 0276 Zone Number 243 0344 Zone 118 112 Partition Assign. 0212 Zone Number 181 0277 Zone Number 243 0264 Zone 18.	0196	Zone Number 166	0261	Zone Num	iber 231	0334	Zone 95 & 96 Partition Assign.
0199 Zone Number 168 0263 Zone Number 733 0336 Zone 101 & 102 Partition Assign. 0200 Zone Number 170 0266 Zone Number 736 0338 Zone 101 & 102 Partition Assign. 0201 Zone Number 171 0266 Zone Number 736 0338 Zone 107 & 108 Partition Assign. 0202 Zone Number 172 0267 Zone Number 733 0340 Zone 117 & 118 Partition Assign. 0203 Zone Number 173 0268 Zone Number 738 0341 Zone 118 N 112 Partition Assign. 0204 Zone Number 174 0269 Zone Number 741 0344 Zone 118 × 112 Partition Assign. 0206 Zone Number 176 0271 Zone Number 741 0344 Zone 118 × 112 Partition Assign. 0206 Number 178 0273 Zone Number 743 0346 Zone 118 × 122 Partition Assign. 0211 Zone Number 178 0277 Zone Number 746 0346 Zone 128 × 122 Partition Assign. 0212 Zone Number 180 0277 Zone Number 746 0346 Zone 18 × 122 Partition Assign. 0214 <	0197	Zone Number 167	0262	Zone Num	iber 232	0335	Zone 97 & 98 Partition Assign.
0199 Zone Number 170 0264 Zone Number 235 0331 Zone 1018 101 Partition Assign. 0201 Zone Number 171 0266 Zone Number 236 0339 Zone 1013 101 Partition Assign. 0202 Zone Number 173 0268 Zone Number 239 0341 Zone 1018 110 Partition Assign. 0203 Zone Number 173 0268 Zone Number 239 0341 Zone 1118 111 Partition Assign. 0206 Zone Number 176 0271 Zone Number 241 0344 Zone 1118 111 Partition Assign. 0207 Zone Number 177 0272 Zone Number 242 0345 Zone 119 8110 Partition Assign. 0208 Zone Number 179 0274 Zone Number 244 0347 Zone 128 124 Partition Assign. 0211 Zone Number 181 0276 Zone Number 246 0349 Zone 128 124 Partition Assign. 0212 Zone Number 181 0277 Zone Number 180 Zone 128 124 Partition Assign. 0354 128 129 128 129 128	0198	Zone Number 168	0263	Zone Num	iber 233	0336	Zone 99 & 100 Partition Assign.
02001 Zone Number 1710 02cb Zone Number 171 02cb Zone Number 172 03cb Zone Number 172 02cb Zone Number 173 02cb Zone Number 173 02cb Zone Number 173 02cb Zone Number 173 02cb Zone Number 174 02cb Zone Number 175 0277 Zone Number 175 0277 Zone Number 176 0271 Zone Number 176 113 114 Partition Assign. 02005 Zone Number 176 0271 Zone Number 178 115 116 <td>0199</td> <td>Zone Number 169</td> <td>0264</td> <td>Zone Num</td> <td>ber 234</td> <td>0337</td> <td>Zone 101 & 102 Partition Assign.</td>	0199	Zone Number 169	0264	Zone Num	ber 234	0337	Zone 101 & 102 Partition Assign.
U201 Zone Number 171 U2bb Zone Number 173 U2bb Zone Number 174 U2bb Zone Number 175 U217 Zone Number 174 U24bb Zone Number 178 U217 Zone Number 178 U217 Zone Number 178 U217 Zone Number 179 U217 Zone Number 128 U219 Zone Number 128 U219 Zone Number 128 U219 Zone 118 U219 Zone Number 128 U219 Zone 128 U219 Zone 128 U219 Zone 128 U219	0200	Zone Number 170	0265	Zone Num	10er 235	0338	Zone 103 & 104 Partition Assign.
2010 Zone Number 172 0267 Zone Number 173 0268 Zone Number 174 0269 Zone Number 174 0269 Zone Number 175 0270 Zone Number 175 0270 Zone Number 175 0270 Zone Number 176 0271 Zone Number 176 0271 Zone Number 177 0272 Zone Number 177 0272 Zone Number 177 0272 Zone Number 178 0273 Zone Number 178 0273 Zone Number 178 0273 Zone Number 178 0273 Zone Number 178 0277 Zone Number 179 0274 Zone Number 179 0274 Zone Number 179 0274 Zone Number 179 0276 Zone Number 179 0276 Zone Number 180 0276 Zone Number 241 0340 Zone 123 124 Partition Assign. 0211 Zone Number 181 0276 Zone Number 244 0351 Zone 127 128 Partition Assign. 0351 Zone 131 132 Partition Assign. 0351 Zone 131 132 Partition Assign. 0351 Zone 131 132 Partition Assign. 0356 Zone 131 132 <td>0201</td> <td>Zone Number 171</td> <td>0266</td> <td>Zone Num</td> <td>10er 236</td> <td>0339</td> <td>Zone 105 & 106 Partition Assign.</td>	0201	Zone Number 171	0266	Zone Num	10er 236	0339	Zone 105 & 106 Partition Assign.
2014 Zone Number 17.3 0.268 Zone Number 17.5 0.276 Zone Number 17.5 0.271 Zone Number 17.5 Zone Number 12.5 1.212 Partition Assign. 0.211 Zone Number 17.5 Zone Number 24.5 0.348 Zone 12.5 1.212 Partition Assign. 0.211 Zone Number 18.1 0.276 Zone Number 24.6 0.351 Zone 12.9 1.319 Partition Assign. 0.214 Zone Number 18.6 0.288 Zone 5.4 6.41116 Assign. 0.356 Zone 13.8 1.34 Partition Assign. 0.357 Zone 13.8 1.34 1.4412 Partition As	0202	Zone Number 172	0267	Zone Num	iber 237	0340	Zone 107 & 108 Partition Assign.
2016 Zone Number 174 0.268 Zone Number 175 0.270 Zone Number 175 0.270 Zone Number 175 0.271 Zone Number 175 0.273 Zone Number 178 0.273 Zone Number 178 0.273 Zone Number 178 0.274 Zone Number 178 0.274 Zone Number 178 0.274 Zone Number 178 0.274 Zone Number 178 0.275 Zone Number 124 0.344 Zone 128 122 Partition Assign. 0211 Zone Number 181 0.276 Zone Number 246 0.349 Zone 127 128 Partition Assign. 0212 Zone Number 183 0.277 Zone Number 248 0.351 Zone 138 139 Partition Assign. 0.352 Zone 138 139 Partition Assign. 0.352 Zone 138 139 Partition Assign. 0.356 Zone 138 149 Partition Assign. 0.357 Zone 138 149 Partition Assign. 0.357 Zone 143 144 Partiti	0203	Zone Number 173	0200	Zone Num	IDEI 236	0341	Zone 109 & 110 Partition Assign.
2026 Zohe Number 175 0271 Zohe Number 242 0344 Zohe 115 & 116 Partition Assign. 0206 Zone Number 177 0272 Zone Number 242 0344 Zone 117 & 118 Partition Assign. 0207 Zone Number 178 0273 Zone Number 242 0344 Zone 117 & 118 Partition Assign. 0208 Zone Number 179 0274 Zone Number 244 0347 Zone 118 & 129 Partition Assign. 0210 Zone Number 181 0276 Zone Number 245 0348 Zone 128 & 124 Partition Assign. 0211 Zone Number 181 0276 Zone Number 246 0348 Zone 128 & 126 Partition Assign. 0214 Zone Number 181 0276 Zone Number 247 0350 Zone 138 & 132 Partition Assign. 0214 Zone Number 183 0287 Zone 1 8 & Partition Assign. 0352 Zone 138 & 139 Partition Assign. 0216 Zone Number 180 0229 Zone 1 13 & 12 Partition Assign. 0356 Zone 148 & 140 Partition Assign. 0217 Zone Number 180 0229 Zone 113 & 14 Partition Assign. 0356 Zone 148 & 149 Partition Assign. <td>0204</td> <td>Zone Number 174</td> <td>0209</td> <td>Zone Num</td> <td>IDEI 239</td> <td>0342</td> <td>Zone 112 & 112 Partition Assign.</td>	0204	Zone Number 174	0209	Zone Num	IDEI 239	0342	Zone 112 & 112 Partition Assign.
02007 Zöne Number 175 0271 Zöne Number 177 0272 Zöne Number 241 0345 Zöne 119 & 10 Partition Assign. 0208 Zöne Number 177 0272 Zöne Number 243 0345 Zöne 119 & 122 Partition Assign. 0209 Zöne Number 179 0274 Zöne Number 244 0347 Zöne 123 & 124 Partition Assign. 0211 Zöne Number 180 0275 Zöne Number 245 0348 Zöne 123 & 124 Partition Assign. 0212 Zöne Number 181 0276 Zöne Number 246 0349 Zöne 13 & 129 Partition Assign. 0212 Zöne Number 183 0277 Zöne Number 247 0350 Zöne 13 & 134 Partition Assign. 0215 Zöne Number 184 0287 Zöne 1 & 8 Partition Assign. 0352 Zöne 13 & 134 Partition Assign. 0216 Zöne Number 186 0289 Zöne 5 & 6 Partition Assign. 0355 Zöne 143 & 144 Partition Assign. 0217 Zöne Number 186 0289 Zöne 1 & 8 14 Partition Assign. 0356 Zöne 143 & 144 Partition Assign. 0218 Zöne Number 188 0291 Zöne 1 & 8 14 Partition Assign.	0205	Zone Number 175	0270	Zone Num	Der 240	0343	Zone 115 & 114 Partition Assign.
Color Color <td< td=""><td>0200</td><td>Zone Number 177</td><td>0271</td><td>Zone Num</td><td>ber 242</td><td>0344</td><td>Zone 117 & 118 Partition Assign</td></td<>	0200	Zone Number 177	0271	Zone Num	ber 242	0344	Zone 117 & 118 Partition Assign
0209 Zohe Number 173 0274 Zohe Number 243 0347 Zohe 113 & 122 Partition Assign. 0210 Zone Number 180 0275 Zone Number 245 0348 Zone 123 & 124 Partition Assign. 0211 Zone Number 181 0275 Zone Number 246 0349 Zone 127 & 128 Partition Assign. 0212 Zone Number 182 0277 Zone Number 247 0350 Zone 137 & 128 Partition Assign. 0214 Zone Number 183 0278 Zone Number 247 0351 Zone 131 & 132 Partition Assign. 0215 Zone Number 185 0288 Zone 3 & 4 Partition Assign. 0352 Zone 133 & 134 Partition Assign. 0216 Zone Number 186 0289 Zone 5 & 6 Partition Assign. 0356 Zone 138 & 134 Partition Assign. 0214 Zone Number 188 0291 Zone 13 & 14 Partition Assign. 0356 Zone 143 & 142 Partition Assign. 0212 Zone Number 190 0233 Zone 13 & 14 Partition Assign. 0356 Zone 145 & 146 Partition Assign.	0207	Zone Number 178	0272	Zone Num	ber 243	0345	Zone 110 & 120 Partition Assign
Case Cons Number 180 Case Case <thcase< th=""> <thcase< th=""> Case</thcase<></thcase<>	0200	Zone Number 179	0273	Zone Num	ber 244	0340	Zone 121 & 122 Partition Assign
Data Data <thdata< th=""> Data Data <thd< td=""><td>0203</td><td>Zone Number 180</td><td>0275</td><td>Zone Num</td><td>ber 245</td><td>0348</td><td>Zone 123 & 124 Partition Assign</td></thd<></thdata<>	0203	Zone Number 180	0275	Zone Num	ber 245	0348	Zone 123 & 124 Partition Assign
0.212 Zone Number 182 0.277 Zone Number 247 0.350 Zone 127 1.28 Parttion Assign. 0.213 Zone Number 183 0.278 Zone Number 248 0.351 Zone 129 8.130 Parttion Assign. 0.214 Zone Number 185 0.288 Zone 1 & 2 Parttion Assign. 0.352 Zone 133 8.132 Parttion Assign. 0.215 Zone Number 185 0.288 Zone 5 & 6 Parttion Assign. 0.354 Zone 133 8.134 Parttion Assign. 0.217 Zone Number 186 0.299 Zone 7 & 8 Parttion Assign. 0.356 Zone 138 1.44 Parttion Assign. 0.218 Zone Number 188 0.291 Zone 8 1.04 Parttion Assign. 0.356 Zone 141 & 142 Parttion Assign. 0.221 Zone Number 191 0.294 Zone 13 & 14 Parttion Assign. 0.356 Zone 147 & 148 Parttion Assign. 0.223 Zone Number 193 0.296 Zone 17 & 8 189 Parttion Assign. 0.361 Zone 149 & 150 Parttion Assign. 0.222 Zone Number 193	0210	Zone Number 181	0276	Zone Num	ber 246	0340	Zone 125 & 124 Partition Assign.
0213 Zone Number 183 0276 Zone Number 248 0351 Zone 128 & 130 Partition Assign. 0214 Zone Number 184 0287 Zone 1 & 2 Partition Assign. 0351 Zone 138 & 134 Partition Assign. 0215 Zone Number 186 0288 Zone 3 & 4 Partition Assign. 0351 Zone 138 & 130 Partition Assign. 0216 Zone Number 186 0289 Zone 7 & 8 Partition Assign. 0355 Zone 138 & 130 Partition Assign. 0217 Zone Number 188 0291 Zone 6 X & 8 Partition Assign. 0355 Zone 138 & 140 Partition Assign. 0218 Zone Number 188 0291 Zone 13 & 14 Partition Assign. 0356 Zone 141 & 412 Partition Assign. 0220 Zone Number 191 0294 Zone 13 & 14 Partition Assign. 0351 Zone 141 & 414 Partition Assign. 0222 Zone Number 191 0294 Zone 15 & 162 Partition Assign. 0361 Zone 141 & 414 Partition Assign. 0222 Zone Number 193 0296 Zone 17 & 418 Partition Assign. <td>0211</td> <td>Zone Number 182</td> <td>0270</td> <td>Zone Num</td> <td>ber 247</td> <td>0350</td> <td>Zone 127 & 128 Partition Assign</td>	0211	Zone Number 182	0270	Zone Num	ber 247	0350	Zone 127 & 128 Partition Assign
0214 Zone Number 184 0287 Zone 1 & 2 Partitin Assign. 0352 Zone 131 & 132 Partition Assign. 0215 Zone Number 186 0288 Zone 3 & 4 Partition Assign. 0354 Zone 138 & 134 Partition Assign. 0216 Zone Number 186 0288 Zone 4 & 8 Partition Assign. 0354 Zone 138 & 134 Partition Assign. 0217 Zone Number 187 0290 Zone 7 & 8 Partition Assign. 0355 Zone 138 & 140 Partition Assign. 0218 Zone Number 189 0292 Zone 13 & 140 Partition Assign. 0356 Zone 148 & 140 Partition Assign. 0220 Zone Number 191 0293 Zone 15 & 16 Partition Assign. 0357 Zone 148 & 140 Partition Assign. 0221 Zone Number 191 0294 Zone 15 & 16 Partition Assign. 0361 Zone 148 & 140 Partition Assign. 0222 Zone Number 191 0296 Zone 17 & 18 Partition Assign. 0361 Zone 148 & 160 Partition Assign. 0224 Zone Number 193 0296 Zone 17 & 18 Partition Assign. 0361 Zone 158 & 160 Partition Assign. 0225 Zone Number 193 0292 Zone 28 &	0212	Zone Number 183	0278	Zone Num	ber 248	0351	Zone 129 & 130 Partition Assign
2015 Zone Number 185 0288 Zone 3 & 4 Partition Assign. 0353 Zone 133 & 134 Partition Assign. 0216 Zone Number 186 0289 Zone 7 & 8 Partition Assign. 0354 Zone 138 & 134 Partition Assign. 0217 Zone Number 187 0290 Zone 7 & 8 Partition Assign. 0355 Zone 138 & 134 Partition Assign. 0218 Zone Number 188 0291 Zone 9 & 10 Partition Assign. 0355 Zone 148 & 142 Partition Assign. 0220 Zone Number 190 0293 Zone 13 & 14 Partition Assign. 0357 Zone 148 & 144 Partition Assign. 0221 Zone Number 191 0294 Zone 13 & 14 Partition Assign. 0358 Zone 148 & 144 Partition Assign. 0222 Zone Number 192 0295 Zone 17 & 18 Partition Assign. 0360 Zone 148 & 144 Partition Assign. 0224 Zone Number 193 0296 Zone 13 & 24 Partition Assign. 0361 Zone 158 & 156 Partition Assign. 0225 Zone Number 198 0298 Zone 23 & 24 Partition Assign. 0362 Zone 158 & 156 Partition Assign. 0226 Zone Number 197 0300 Zone 23 &	0210	Zone Number 184	0287	Zone 1 & 2	2 Partitin Assign	0352	Zone 131 & 132 Partition Assign
Cone Number Title Cone State Cone	0215	Zone Number 185	0288	Zone 3 &	4 Partition Assign	0353	Zone 133 & 134 Partition Assign
0217 Zone Number 187 0290 Zone 7 & 8 Partition Assign. 0355 Zone 137 & 138 Partition Assign. 0218 Zone Number 188 0291 Zone 9 & 10 Partition Assign. 0355 Zone 139 & 140 Partition Assign. 0219 Zone Number 190 0293 Zone 11 & 12 Partition Assign. 0355 Zone 143 & 142 Partition Assign. 0221 Zone Number 190 0293 Zone 13 & 14 Partition Assign. 0356 Zone 143 & 142 Partition Assign. 0222 Zone Number 191 0294 Zone 15 & 16 Partition Assign. 0360 Zone 147 & 148 Partition Assign. 0224 Zone Number 193 0296 Zone 17 & 18 Partition Assign. 0361 Zone 153 & 152 Partition Assign. 0225 Zone Number 194 0297 Zone 23 & 24 Partition Assign. 0365 Zone 153 & 156 Partition Assign. 0226 Zone Number 196 0298 Zone 28 & 20 Partition Assign. 0365 Zone 159 & 160 Partition Assign. 0227 Zone Number 198 0301 Zone 28 & 20 Partition Assign. 0365 Zone 150 & 160 Partition Assign. 0230 Zone 178 & 160 Partition Assign. 0370	0216	Zone Number 186	0289	Zone 5 & (6 Partition Assign	0354	Zone 135 & 136 Partition Assign
0218 Zone Number 188 0291 Zone 9 & 10 Partition Assign. 0356 Zone 13 9 & 140 Partition Assign. 0219 Zone Number 189 0292 Zone 11 & 12 Partition Assign. 0357 Zone 14 & 14 2 Partition Assign. 0220 Zone Number 190 0293 Zone 15 & 16 Partition Assign. 0357 Zone 14 & 14 2 Partition Assign. 0221 Zone Number 191 0294 Zone 15 & 16 Partition Assign. 0360 Zone 147 & 148 Partition Assign. 0222 Zone Number 193 0296 Zone 17 & 18 Partition Assign. 0361 Zone 147 & 148 Partition Assign. 0224 Zone Number 193 0296 Zone 24 & 22 Partition Assign. 0361 Zone 15 & 156 Partition Assign. 0225 Zone Number 194 0297 Zone 25 & 26 Partition Assign. 0364 Zone 15 & 156 Partition Assign. 0226 Zone Number 197 0300 Zone 27 & 28 Partition Assign. 0365 Zone 15 & 8 156 Partition Assign. 0230 Zone 197 8300 24 Partition Assign. 0367 Zone 16 % 16 Partition Assign. 0232 Zone Number 198 0302 Zone 31 & 32 Partition	0217	Zone Number 187	0290	Zone 7 & 8	8 Partition Assign.	0355	Zone 137 & 138 Partition Assign.
0219 Zone Number 189 0292 Zone 11 & 12 Partition Assign. 0357 Zone 14 & 142 Partition Assign. 0221 Zone Number 190 0293 Zone 13 & 14 Partition Assign. 0358 Zone 14 & 144 Partition Assign. 0221 Zone Number 191 0294 Zone 17 & 18 16 Partition Assign. 0358 Zone 14 & 144 Partition Assign. 0222 Zone Number 192 0295 Zone 17 & 18 18 Partition Assign. 0360 Zone 14 & 148 Partition Assign. 0223 Zone Number 192 0295 Zone 17 & 18 20 Partition Assign. 0361 Zone 14 & 150 Partition Assign. 0224 Zone Number 193 0296 Zone 22 & 22 Partition Assign. 0362 Zone 151 & 152 Partition Assign. 0225 Zone Number 195 0298 Zone 23 & 22 Partition Assign. 0363 Zone 153 & 154 Partition Assign. 0226 Zone Number 197 0300 Zone 27 & 28 20 Partition Assign. 0365 Zone 157 & 158 Partition Assign. 0230 Zone Number 199 0302 Zone 31 & 32 Partition Assign. 0367 Zone 161 & 162 Partition Assign. 0231 Zone Number 200 0333 Zone 37 & 38 Partition Assign. 0370 Zone 161 & 162 Partition Assign. <td>0218</td> <td>Zone Number 188</td> <td>0291</td> <td>Zone 9 &</td> <td>10 Partition Assign.</td> <td>0356</td> <td>Zone 139 & 140 Partition Assign.</td>	0218	Zone Number 188	0291	Zone 9 &	10 Partition Assign.	0356	Zone 139 & 140 Partition Assign.
0220 Zone Number 190 0293 Zone 13 & 14 Partition Assign. 0358 Zone 143 & 144 Partition Assign. 0221 Zone Number 191 0294 Zone 15 & 16 Partition Assign. 0369 Zone 145 & 146 Partition Assign. 0222 Zone Number 192 0295 Zone 17 & 18 Partition Assign. 0361 Zone 148 & 146 Partition Assign. 0224 Zone Number 193 0296 Zone 18 & 20 Partition Assign. 0361 Zone 148 & 150 Partition Assign. 0225 Zone Number 195 0298 Zone 23 & 24 Partition Assign. 0362 Zone 155 & 154 Partition Assign. 0226 Zone Number 196 0299 Zone 25 & 26 Partition Assign. 0364 Zone 157 & 158 Partition Assign. 0227 Zone Number 197 0300 Zone 33 & 34 Partition Assign. 0366 Zone 157 & 158 Partition Assign. 0230 Zone Number 200 0303 Zone 33 & 34 Partition Assign. 0367 Zone 168 & 164 Partition Assign. 0231 Zone Number 201 0304 Zone 35 & 36 Partition Assign. 0376 Zone 168 & 164 Partition Assign. 0232 Zone Number 203 0306 Zo	0219	Zone Number 189	0292	Zone 11 &	12 Partition Assign.	0357	Zone 141 & 142 Partition Assign.
0221 Zone Number 191 0294 Zone 15 & 16 Partition Assign. 0359 Zone 145 & 146 Partition Assign. 0222 Zone Number 192 0295 Zone 17 & 18 Partition Assign. 0360 Zone 147 & 148 Partition Assign. 0224 Zone Number 194 0297 Zone 23 & 22 Partition Assign. 0362 Zone 151 & 152 Partition Assign. 0225 Zone Number 195 0298 Zone 23 & 24 Partition Assign. 0362 Zone 153 & 154 Partition Assign. 0226 Zone Number 196 0299 Zone 27 & 226 Partition Assign. 0366 Zone 157 & 156 Partition Assign. 0228 Zone Number 197 0300 Zone 27 & 28 Partition Assign. 0366 Zone 157 & 166 Partition Assign. 0292 Zone 198 0301 Zone 27 & 38 Partition Assign. 0366 Zone 167 & 168 Partition Assign. 0231 Zone Number 200 0303 Zone 38 & 34 Partition Assign. 0367 Zone 165 & 166 Partition Assign. 0232 Zone Number 201 0305 Zone 37 & 38 Partition Assign. 0370 Zone 165 & 166 Partition Assign. 0233 Zone Number 203 0306 Zone 37	0220	Zone Number 190	0293	Zone 13 &	14 Partition Assign.	0358	Zone 143 & 144 Partition Assign.
0222 Zone Number 192 0295 Zone 17 & 18 Partition Assign. 0360 Zone 147 & 14 Partition Assign. 0223 Zone Number 193 0296 Zone 19 & 20 Partition Assign. 0361 Zone 149 & 150 Partition Assign. 0224 Zone Number 195 0296 Zone 23 & 24 Partition Assign. 0363 Zone 153 & 152 Partition Assign. 0226 Zone Number 197 0300 Zone 27 & 28 Partition Assign. 0364 Zone 153 & 156 Partition Assign. 0227 Zone Number 197 0300 Zone 27 & 28 Partition Assign. 0366 Zone 155 & 156 Partition Assign. 0228 Zone Number 199 0302 Zone 27 & 28 Partition Assign. 0366 Zone 157 & 158 Partition Assign. 0230 Zone Number 199 0302 Zone 33 & 34 Partition Assign. 0367 Zone 161 & 162 Partition Assign. 0231 Zone Number 201 0304 Zone 38 & 40 Partition Assign. 0367 Zone 167 & 168 Partition Assign. 0232 Zone Number 203 0306 Zone 38 & 40 Partition Assign. 0377 Zone 167 & 168 Partition Assign. 0234 Zone Number 203 0306 Zon	0221	Zone Number 191	0294	Zone 15 &	16 Partition Assign.	0359	Zone 145 & 146 Partition Assign.
0223 Zone Number 193 0296 Zone 19 & 20 Partition Assign. 0361 Zone 149 & 150 Partition Assign. 0224 Zone Number 194 0297 Zone 21 & 22 Partition Assign. 0362 Zone 153 & 152 Partition Assign. 0225 Zone Number 196 0299 Zone 23 & 24 Partition Assign. 0363 Zone 153 & 156 Partition Assign. 0226 Zone Number 197 0300 Zone 27 & 28 Partition Assign. 0365 Zone 158 & 156 Partition Assign. 0228 Zone Number 197 0300 Zone 28 & 30 Partition Assign. 0366 Zone 159 & 160 Partition Assign. 0229 Zone Number 198 0301 Zone 28 & 30 Partition Assign. 0366 Zone 163 & 164 Partition Assign. 0230 Zone Number 201 0304 Zone 38 & 34 Partition Assign. 0368 Zone 165 & 166 Partition Assign. 0233 Zone Number 203 0306 Zone 38 & 40 Partition Assign. 0371 Zone 167 & 168 Partition Assign. 0234 Zone Number 204 0307 Zone 41 & 42 Partition Assign. 0372 Zone 177 & 178 Partition Assign. 0235 Zone Number 206 0308 Zo	0222	Zone Number 192	0295	Zone 17 &	18 Partition Assign.	0360	Zone 147 & 148 Partition Assign.
0224 Zone Number 194 0297 Zone 21 & 22 Partition Assign. 0362 Zone 151 & 152 Partition Assign. 0225 Zone Number 195 0298 Zone 23 & 24 Partition Assign. 0364 Zone 155 & 156 Partition Assign. 0226 Zone Number 196 0299 Zone 25 & 26 Partition Assign. 0364 Zone 155 & 156 Partition Assign. 0228 Zone Number 197 0300 Zone 27 & 28 Partition Assign. 0365 Zone 157 & 158 Partition Assign. 0229 Zone Number 199 0302 Zone 31 & 32 Partition Assign. 0366 Zone 161 & 162 Partition Assign. 0230 Zone Number 200 0303 Zone 33 & 34 Partition Assign. 0367 Zone 163 & 164 Partition Assign. 0231 Zone Number 201 0304 Zone 37 & 38 Partition Assign. 0370 Zone 163 & 164 Partition Assign. 0232 Zone Number 203 0306 Zone 38 & 40 Partition Assign. 0371 Zone 167 & 176 Partition Assign. 0234 Zone Number 203 0306 Zone 41 & 42 Partition Assign. 0372 Zone 173 & 174 Partition Assign. 0235 Zone Number 206 0309 Zo	0223	Zone Number 193	0296	Zone 19 &	20 Partition Assign.	0361	Zone 149 & 150 Partition Assign.
0225 Zone Number 195 0298 Zone 23 & 24 Partition Assign. 0363 Zone 153 & 154 Partition Assign. 0226 Zone Number 196 0299 Zone 25 & 26 Partition Assign. 0364 Zone 155 & 156 Partition Assign. 0227 Zone Number 197 0300 Zone 27 & 28 Partition Assign. 0364 Zone 155 & 156 Partition Assign. 0228 Zone Number 199 0302 Zone 27 & 28 Partition Assign. 0366 Zone 159 & 160 Partition Assign. 0230 Zone Number 200 0303 Zone 33 & 34 Partition Assign. 0367 Zone 161 & 162 Partition Assign. 0231 Zone Number 201 0304 Zone 33 & 34 Partition Assign. 0367 Zone 165 & 166 Partition Assign. 0233 Zone Number 202 0305 Zone 39 & 40 Partition Assign. 0370 Zone 167 & 168 Partition Assign. 0234 Zone Number 203 0306 Zone 39 & 40 Partition Assign. 0371 Zone 173 & 174 Partition Assign. 0235 Zone Number 205 0308 Zone 41 & 42 Partition Assign. 0372 Zone 173 & 174 Partition Assign. 0237 Zone Number 208 0311 Zo	0224	Zone Number 194	0297	Zone 21 &	22 Partition Assign.	0362	Zone 151 & 152 Partition Assign.
0226 Zone Number 196 0299 Zone 25 & 26 Partition Assign. 0364 Zone 155 & 156 Partition Assign. 0227 Zone Number 197 0300 Zone 27 & 28 Partition Assign. 0365 Zone 157 & 158 Partition Assign. 0228 Zone Number 198 0301 Zone 29 & 30 Partition Assign. 0366 Zone 157 & 158 Partition Assign. 0229 Zone Number 199 0302 Zone 33 & 34 Partition Assign. 0367 Zone 161 & 162 Partition Assign. 0231 Zone Number 201 0304 Zone 35 & 36 Partition Assign. 0368 Zone 165 & 166 Partition Assign. 0232 Zone Number 201 0305 Zone 37 & 38 Partition Assign. 0370 Zone 167 & 168 Partition Assign. 0234 Zone Number 203 0306 Zone 38 & 40 Partition Assign. 0371 Zone 167 & 170 Partition Assign. 0235 Zone Number 206 0309 Zone 47 & 44 Partition Assign. 0372 Zone 173 & 174 Partition Assign. 0236 Zone Number 208 0311 Zone 47 & 48 Partition Assign. 0375 Zone 173 & 174 Partition Assign. 0237 Zone Number 208 0311 Zo	0225	Zone Number 195	0298	Zone 23 &	24 Partition Assign.	0363	Zone 153 & 154 Partition Assign.
0227 Zone Number 197 0300 Zone 27 & 28 Partition Assign. 0365 Zone 157 & 158 Partition Assign. 0228 Zone Number 198 0301 Zone 29 & 30 Partition Assign. 0366 Zone 161 & 162 Partition Assign. 0230 Zone Number 200 0303 Zone 31 & 32 Partition Assign. 0368 Zone 161 & 162 Partition Assign. 0231 Zone Number 201 0304 Zone 35 & 32 Partition Assign. 0368 Zone 163 & 164 Partition Assign. 0232 Zone Number 201 0304 Zone 37 & 38 Partition Assign. 0370 Zone 165 & 166 Partition Assign. 0233 Zone Number 203 0306 Zone 41 & 42 Partition Assign. 0371 Zone 168 & 170 Partition Assign. 0234 Zone Number 205 0308 Zone 43 & 44 Partition Assign. 0372 Zone 171 & 172 Partition Assign. 0235 Zone Number 206 0309 Zone 45 & 46 Partition Assign. 0375 Zone 173 & 174 Partition Assign. 0236 Zone Number 207 0310 Zone 47 & 48 Partition Assign. 0375 Zone 177 & 178 Partition Assign. 0237 Zone Number 210 0311 Zo	0226	Zone Number 196	0299	Zone 25 &	26 Partition Assign.	0364	Zone 155 & 156 Partition Assign.
0228 Zone Number 198 0301 Zone 29 & 30 Partition Assign. 0366 Zone 159 & 160 Partition Assign. 0229 Zone Number 199 0302 Zone 31 & 32 Partition Assign. 0367 Zone 161 & 162 Partition Assign. 0230 Zone Number 200 0303 Zone 33 & 34 Partition Assign. 0368 Zone 163 & 164 Partition Assign. 0231 Zone Number 201 0304 Zone 35 & 36 Partition Assign. 0370 Zone 163 & 164 Partition Assign. 0233 Zone Number 202 0305 Zone 37 & 38 Partition Assign. 0370 Zone 169 & 170 Partition Assign. 0234 Zone Number 204 0307 Zone 41 & 42 Partition Assign. 0371 Zone 169 & 170 Partition Assign. 0235 Zone Number 205 0308 Zone 43 & 44 Partition Assign. 0372 Zone 173 & 174 Partition Assign. 0237 Zone Number 206 0309 Zone 47 & 48 Partition Assign. 0375 Zone 177 & 178 Partition Assign. 0238 Zone Number 209 0312 Zone 51 & 52 Partition Assign. 0376 Zone 179 & 180 Partition Assign. 0240 Zone Number 211 0313 Zo	0227	Zone Number 197	0300	Zone 27 &	28 Partition Assign.	0365	Zone 157 & 158 Partition Assign.
0229 Zone Number 199 0302 Zone 31 & 32 Partition Assign. 0367 Zone 161 & 162 Partition Assign. 0230 Zone Number 200 0303 Zone 33 & 34 Partition Assign. 0368 Zone 163 & 164 Partition Assign. 0231 Zone Number 201 0304 Zone 33 & 36 Partition Assign. 0369 Zone 165 & 166 Partition Assign. 0232 Zone Number 203 0306 Zone 37 & 38 Partition Assign. 0370 Zone 167 & 168 Partition Assign. 0234 Zone Number 203 0306 Zone 43 & 44 Partition Assign. 0371 Zone 171 & 172 Partition Assign. 0235 Zone Number 206 0309 Zone 43 & 44 Partition Assign. 0373 Zone 173 & 174 Partition Assign. 0236 Zone Number 207 0310 Zone 47 & 48 Partition Assign. 0374 Zone 173 & 174 Partition Assign. 0237 Zone Number 208 0311 Zone 47 & 48 Partition Assign. 0376 Zone 177 & 178 Partition Assign. 0238 Zone Number 210 0313 Zone 53 & 54 Partition Assign. 0377 Zone 178 & 186 Partition Assign. 0241 Zone Number 211 0314 Zo	0228	Zone Number 198	0301	Zone 29 &	30 Partition Assign.	0366	Zone 159 & 160 Partition Assign.
0230 Zone Number 200 0303 Zone 33 & 34 Partition Assign. 0368 Zone 163 & 164 Partition Assign. 0231 Zone Number 201 0304 Zone 35 & 36 Partition Assign. 0369 Zone 165 & 166 Partition Assign. 0232 Zone Number 202 0305 Zone 37 & 38 Partition Assign. 0370 Zone 167 & 168 Partition Assign. 0233 Zone Number 203 0306 Zone 39 & 40 Partition Assign. 0371 Zone 167 & 168 Partition Assign. 0234 Zone Number 205 0308 Zone 41 & 42 Partition Assign. 0372 Zone 171 & 172 Partition Assign. 0235 Zone Number 206 0309 Zone 43 & 44 Partition Assign. 0374 Zone 173 & 174 Partition Assign. 0237 Zone Number 206 0309 Zone 47 & 48 Partition Assign. 0375 Zone 177 & 178 Partition Assign. 0238 Zone Number 208 0311 Zone 47 & 48 Partition Assign. 0376 Zone 177 & 178 Partition Assign. 0240 Zone Number 210 0313 Zone 53 & 54 Partition Assign. 0377 Zone 183 & 184 Partition Assign. 0241 Zone Number 213 0316 Zone 57 & 58 Partition Assign. 0378 Zone 183 & 184 Partition Assign.	0229	Zone Number 199	0302	Zone 31 &	32 Partition Assign.	0367	Zone 161 & 162 Partition Assign.
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0395 Zone 217 & 218 Partition Assign. 0.464 Zone 99 & 100 Zone Type 0529 Zone 238 & 232 Orne Type 0397 Zone 238 & 222 Partition Assign. 0.466 Zone 103 & 100 Zone Type 0.531 Zone 238 & 232 Zone Type 0398 Zone 238 & 222 Partition Assign. 0.468 Zone 107 & 100 Zone Type 0.532 Zone 238 & 232 Zone Type 0410 Zone 238 & 222 Partition Assign. 0.471 Zone 118 & 112 Zone Type 0.533 Zone 234 & 323 Zone Type 0400 Zone 238 & 232 Partition Assign. 0.471 Zone 118 & 112 Zone Type 0.538 Zone 248 & 244 Zone Type 0404 Zone 238 & 232 Partition Assign. 0.473 Zone 118 & 212 Zone Type 0.538 Zone 248 & 248 Zone Type 0405 Zone 238 & 234 Partition Assign. 0.473 Zone 118 & 212 Zone Type 0.561 Alpha for Partition 1 0406 Zone 238 & 248 Partition Assign. 0.477 Zone 128 & 212 Zone Type 0.561 Alpha for Partition 3 0407 Zone 238 & 249 Partition Assign. 0.477 Zone 128 & 212 Zone Type 0.561 Alpha for Partition 1 0408	0394	Zone 215 & 216 Partition Assign.	0463	Zone 97 & 98 Zone Type	0528	Zone 227 & 228 Zone Type
0396 Zone 219 & 220 Partition Assign. 0465 Zone 101 & 102 Zone Type 0530 Zone 233 & 222 Partition Assign. 0467 0397 Zone 223 & 224 Partition Assign. 0467 Zone 108 & 100 Zone Type 0531 Zone 238 & 224 Partition Assign. 0469 0400 Zone 237 & 228 Partition Assign. 0469 Zone 108 & 110 Zone Type 0532 Zone 237 & 228 Zone Type 0410 Zone 237 & 228 Zone Type 0453 Zone 247 & 228 Zone Type 0453 0410 Zone 237 & 238 Partition Assign. 0477 Zone 118 & 114 Zone Type 0535 Zone 247 & 248 Zone Type 0402 Zone 237 & 238 Partition Assign. 0477 Zone 118 & 118 Zone Type 0555 Alpha for Partition 1 0405 Zone 237 & 238 Partition Assign. 0476 Zone 123 & 122 Zone Type 0555 Alpha for Partition 2 0407 Zone 247 & 248 Partition Assign. 0476 Zone 123 & 123 Zone Type 0555 Alpha for Partition 3 0407 Zone 247 & 248 Zone Type 0481 Zone 133 & 132 Zone Type 0557 Alpha for Zone 247 & 248 Zone Type 0417 Zone 148 & 242 Partition As	0395	Zone 217 & 218 Partition Assign.	0464	Zone 99 & 100 Zone Type	0529	Zone 229 & 230 Zone Type
0397 Zone 221 & 222 Partition Assign. 0466 Zone 103 & 106 Zone Type 0531 Zone 238 & 224 Partition Assign. 0468 0399 Zone 228 & 228 Partition Assign. 0468 Zone 107 & 100 Zone 207 & 200 238 & 238 Zone Type 0401 Zone 238 & 229 Partition Assign. 0470 Zone 111 & 112 Zone Type 0533 Zone 238 & 234 Zone Type 0401 Zone 238 & 230 Partition Assign. 0470 Zone 111 & 112 Zone Type 0535 Zone 248 & 242 Zone Type 0402 Zone 238 & 234 Partition Assign. 0472 Zone 118 & 112 Zone Type 0537 Zone 247 & 248 Zone Type 0403 Zone 237 & 238 Partition Assign. 0473 Zone 118 & 112 Zone Type 0537 Zone 247 & 248 Zone Type 0404 Zone 247 & 248 Partition Assign. 0477 Zone 128 & 220 Partition 4 Aprition Partition 4 0410 Zone 247 & 248 Partition Assign. 0477 Zone 128 & 130 Zone Type 0657 Aprita for Partition 6 0411 Zone 178 & 220 Partition Assign. 0479 Zone 128 & 130 Zone Type 0657 Aprita for Partition 6 0410 Zone 178 & 220 Partition Assign. 0479	0396	Zone 219 & 220 Partition Assign.	0465	Zone 101 & 102 Zone Type	0530	Zone 231 & 232 Zone Type
0398 Zone 223 & 224 Partition Assign. 0467 Zone 108 & 108 Zone Type 0532 Zone 237 & 228 Zone Type 0400 Zone 227 & 228 Partition Assign. 0469 Zone 109 & 110 Zone Type 0534 Zone 237 & 228 Zone Type 0401 Zone 237 & 228 Partition Assign. 0471 Zone 118 X 112 Zone Type 0535 Zone 237 & 238 Zone Type 0435 0402 Zone 237 & 238 Partition Assign. 0471 Zone 118 X 112 Zone Type 0536 Zone 237 & 238 Za4 Zone Type 0404 Zone 238 & 239 Partition Assign. 0473 Zone 117 X 118 Zone Type 0537 Zone 248 & 244 Zone Type 0404 Zone 237 & 238 Partition Assign. 0473 Zone 121 X 122 Zone Type 0545 Alpha for Partition 1 0406 Zone 248 X 244 Partition Assign. 0477 Zone 121 X 122 Zone Type 0553 Alpha for Partition 3 0410 Zone 248 X 244 Partition Assign. 0477 Zone 128 X 132 Zone Type 0553 Alpha for Partition 3 0411 Zone 248 X 20 Partition Assign. 0477 Zone 128 X 132 Zone Type 0553 Alpha for Partition 3 0412 Zone 148 X 20 Zon	0397	Zone 221 & 222 Partition Assign.	0466	Zone 103 & 104 Zone Type	0531	Zone 233 & 234 Zone Type
0399 Zone 225 & 228 Partition Assign. 0468 Zone 107 & 108 Zone Type 0533 Zone 238 & 238 Zone Type 0401 Zone 227 & 223 Partition Assign. 0470 Zone 111 & 112 Zone Type 0555 Zone 238 & 234 Zone Type 0402 Zone 238 & 234 Partition Assign. 0472 Zone 111 & 112 Zone Type 0555 Zone 248 & 244 Zone Type 0403 Zone 238 & 234 Partition Assign. 0472 Zone 118 & 113 Zone Type 0557 Zone 247 & 248 Zone Type 0404 Zone 238 & 234 Partition Assign. 0472 Zone 118 & 112 Zone Type 0551 Zone 247 & 248 Zone Type 0405 Zone 238 & 240 Partition Assign. 0477 Zone 128 & 122 Zone Type 0551 Alpha for Partition 1 0406 Zone 247 & 248 Partition Assign. 0477 Zone 128 & 130 Zone Type 0555 Alpha for Partition 5 0410 Zone 247 & 248 Partition Assign. 0479 Zone 138 & 132 Zone Type 06674 Alpha for Partition 6 0411 Zone 138 & 132 Zone Type 06874 Alpha for Partition 6 Alpha for Partition 7 0411 Zone 138 & 102 Zone Type 0483 Zone 137	0398	Zone 223 & 224 Partition Assign.	0467	Zone 105 & 106 Zone Type	0532	Zone 235 & 236 Zone Type
0400 Zone 227 8 228 Partition Assign. 0469 Zone 108 110 Zone Type 0534 Zone 214 8 224 Zone Type 0401 Zone 228 8 230 Partition Assign. 0471 Zone 118 112 Zone Type 0538 Zone 214 8 224 Zone Type 0402 Zone 238 8 234 Partition Assign. 0471 Zone 118 112 Zone Type 0538 Zone 245 8 246 Zone Type 0404 Zone 238 8 234 Partition Assign. 0473 Zone 178 118 212 Zone Type 0548 Alpha for Partition 1 0406 Zone 238 8 240 Partition Assign. 0475 Zone 128 122 Zone Type 0561 Alpha for Partition 3 0407 Zone 248 8 248 Partition Assign. 0477 Zone 128 122 Zone Type 0561 Alpha for Partition 4 0410 Zone 248 8 248 Partition Assign. 0477 Zone 128 132 Zone Type 0481 Zone 138 143 Zone Type 0481 Zone 148 122 Zone Type 0481 Zone 148 122 Zone Type 0481 Zone 148 122 Zone Type 0481 Zone 147 Partition 8 200 Zone Type 0481<	0399	Zone 225 & 226 Partition Assign.	0468	Zone 107 & 108 Zone Type	0533	Zone 237 & 238 Zone Type
0401 Zone 228 & 230 Partition Assign. 0470 Zone 118 & 114 Zone Type 0533 Zone 231 & 224 Partition Assign. 0472 Zone 118 & 114 Zone Type 0533 Zone 238 & 234 Partition Assign. 0472 Zone 118 & 114 Zone Type 0533 Zone 238 & 234 Partition Assign. 0472 Zone 118 & 112 Zone Type 0533 Zone 238 & 234 Partition Assign. 0474 Zone 178 & 112 Zone Type 0543 Alpha for Partition 1 0400 Zone 238 & 234 Partition Assign. 0474 Zone 178 & 122 Zone Type 0547 Alpha for Partition 2 0401 Zone 248 & 244 Partition Assign. 0476 Zone 128 & 122 Zone Type 0577 Alpha for Partition 3 0402 Zone 248 & 244 Partition Assign. 0478 Zone 178 & 128 Zone Type 0681 Zone 178 & 128 Zone Type 0482 Zone 178 & 138 Zone Type 0681 Zone 178 & 138 Zone Type 0482 Zone 178 & 138 Zone Type 0681 Zone 178 & 138 Zone Type 0482 Zone 178 & 138 Zone Type 0482 Zone 178 & 138 Zone Type 0481 Zone 178 & 138 Zone Type 0482 Zone 178 & 138 Zone Type 0481 Zone 178 & 138 Zone Type 0481 Zone 178 & 138 Zone Type	0400	Zone 227 & 228 Partition Assign.	0469	Zone 109 & 110 Zone Type	0534	Zone 239 & 240 Zone Type
0402 Zone 231 & 232 Partition Assign. 0471 Zone 113 & 114 Zone Type 0536 Zone 218 & 244 Zone Type 0403 Zone 233 & 234 Partition Assign. 0473 Zone 117 & 118 Zone Type 0533 Zone 218 & 242 Zone Type 0404 Zone 238 & 234 Partition Assign. 0473 Zone 118 & 120 Zone Type 0561 Alpha for Partition 1 0406 Zone 238 & 244 Partition Assign. 0475 Zone 128 & 122 Zone Type 0561 Alpha for Partition 2 0408 Zone 248 & 244 Partition Assign. 0477 Zone 128 & 126 Zone Type 0583 Alpha for Partition 3 0409 Zone 248 & 244 Partition Assign. 0477 Zone 128 & 126 Zone Type 0481 Zone 178 & 120 Zone Type 0481 Zone 178 & 120 Zone Type 0481 Zone 138 & 132 Zone Type 0481 Zone 138 & 130 Zone Type 0481 Zone 148 & 140 Zone Type 0481 Zone 148 & 140 Zone Type 0481 Zone 147 & 148 Zone Type 0481 Zone 148 & 140 Zone Type 0481 Zone 147 & 148 Zone Type 0481 Zone 148 &	0401	Zone 229 & 230 Partition Assign.	0470	Zone 111 & 112 Zone Type	0535	Zone 241 & 242 Zone Type
0403 Zone 238 & 239 Partition Assign. 0472 Zone 116 & 115 Zone Type 0537 Zone 278 & 248 Zone Type 0406 Zone 238 & 238 Partition Assign. 0474 Zone 1178 & 118 Zone Type 0543 Alpha for Partition 1 0407 Zone 237 & 238 & 249 Partition Assign. 0474 Zone 128 & 122 Zone Type 0557 Alpha for Partition 2 0407 Zone 248 & 244 Partition Assign. 0476 Zone 128 & 122 Zone Type 0557 Alpha for Partition 3 0408 Zone 248 & 244 Partition Assign. 0478 Zone 178 & 128 Zone Type 0480 Zone 178 & 128 Zone Type 0480 Zone 178 & 128 Zone Type 0481 Zone 178 & 138 Zone Type 0481 Zone 178 & 138 Zone Type 0482 Zone 178 & 138 Zone Type 0481 Zone 178 & 138 Zone Type	0402	Zone 231 & 232 Partition Assign.	0471	Zone 113 & 114 Zone Type	0536	Zone 243 & 244 Zone Type
0404 Zone 237 & 238 Partition Assign. 0473 Zone 117 & 118 Zone Type 0538 Zone 247 & 248 Partition Assign. 0406 Zone 239 & 240 Partition Assign. 0477 Zone 121 & 122 Zone Type 0561 Alpha for Partition 1 0408 Zone 241 & 242 Partition Assign. 0477 Zone 121 & 122 Zone Type 0593 Alpha for Partition 4 0409 Zone 241 & 242 Partition Assign. 0477 Zone 128 & 124 Zone Type 0461 Alpha for Partition 4 0410 Zone 247 & 248 Partition Assign. 0478 Zone 128 & 123 Zone Type 0462 Zone 138 & 132 Zone Type 0461 Alpha for Partition 6 0417 Zone 5 & 6 Zone Type 0448 Zone 138 & 132 Zone Type 0461 Zone 148 L 22 Zone Type 0478 Zone 138 & 132 Zone Type 0481 Zone 138 & 142 Zone Type 0481 Zone 138 & 142 Zone Type 0481 Zone 148 & 142 Zone Type 0448 Zone 138 & 143 Zone Type 0448 Zone 178 & 148 Zone 179 0473 Alpha for Zone Number 1 0421 Zone 11 & 12 Zone Type 0448 Zone 148 & 144 Zone Type 0476 Zone 128 Zone Type 0448 Zone 178 K	0403	Zone 233 & 234 Partition Assign.	0472	Zone 116 & 115 Zone Type	0537	Zone 245 & 246 Zone Type
0406 Zone 23 & 239 Partition Assign. 0474 Zone 119 & 120 Zone Type 0545 Alpha for Partition 1 0407 Zone 239 & 240 Partition Assign. 0477 Zone 124 & 122 Zone Type 0577 Alpha for Partition 3 0408 Zone 241 & 242 Partition Assign. 0477 Zone 128 & 124 Zone Type 0609 Alpha for Partition 4 0409 Zone 243 & 244 Partition Assign. 0477 Zone 128 & 120 Zone Type 0611 Zone 247 & 249 Partition Assign. 0478 0410 Zone 247 & 240 Partition Assign. 0478 Zone 138 & 133 Zone Type 0461 Zone 138 & 134 Zone Type 0461 Zone 138 & 134 Zone Type 0461 Zone 138 & 134 Zone Type 0473 Zone 148 Zone Type 0474 Zone 138 & 134 Zone Type 0473 Zone 148 Zone Type 0474 Zone 138 L14 Zone Type 0462 Zone 148 & 144 Zone Type 0474 Zone 148 L14 Zone Type 0474 Zone 148 Zone Type 0474 Zone 148 L14 Zone Type 0474 Zone 148 L12 Zone Type 0478 Zone 148 Zi Zone Type 0478<	0404	Zone 235 & 236 Partition Assign.	0473	Zone 117 & 118 Zone Type	0538	Zone 247 & 248 Zone Type
0400 Zone 239 & 240 Partition Assign. 0475 Zone 121 & 122 Zone Type 0561 Alpha for Partition 2 0407 Zone 241 & 242 Partition Assign. 0477 Zone 123 & 124 Zone Type 0593 Alpha for Partition 4 0409 Zone 245 & 246 Partition Assign. 0477 Zone 127 & 128 Zone Type 0465 Alpha for Partition 5 0410 Zone 247 & 248 Partition Assign. 0478 Zone 178 & 123 Zone Type 0461 Alpha for Partition 6 0411 Zone 3 & 4 Zone Type 0481 Zone 138 & 133 Zone Type 0461 Zone 148 Partition 7 0476 Zone 138 & 133 Zone Type 0461 Zone 148 Partition 7 0476 Zone 148 Partition 7 0476 Zone 148 Partition 7 0476 Zone 148 Partition 7 0481 Zone 148 Partition 7 0481 Zone 148 Partition 7 0481 Zone 148 Partition 7 0482 Zone 148 Partition 7 0481 Zone 1679 0481 Partition 7	0405	Zone 237 & 238 Partition Assign.	0474	Zone 119 & 120 Zone Type	0545	Alpha for Partition 1
0407 Zone 241 & 242 Partition Assign. 0476 Zone 128 & 214 Zane Type 0577 Alpha for Partition A 0408 Zone 243 & 244 Partition Assign. 0477 Zone 128 & 126 Zone Type 0609 Alpha for Partition 5 0410 Zone 247 & 248 Partition Assign. 0478 Zone 1128 & 120 Zone Type 0641 Zone 127 & 2128 & 123 Zone Type 0641 Alpha for Partition 7 0416 Zone 3 & 42 Zone Type 0448 Zone 138 & 134 Zone Type 0677 Alpha for Zone Number 1 0417 Zone 5 & 8 Zone Type 0448 Zone 138 & 134 Zone Type 0673 Alpha for Zone Number 2 0418 Zone 7 & 8 Zone Type 0448 Zone 137 & 138 Zone Type 0757 Alpha for Zone Number 2 0420 Zone 11 & 12 Zone Type 0448 Zone 148 & 144 Zone Type 0753 Alpha for Zone Number 3 0421 Zone 13 & 14 Zone Type 0448 Zone 148 & 144 Zone Type 0753 Alpha for Zone Number 6 0422 Zone 13 & 12 Zone Type 0448 Zone 148 & 142 Zone Type 0753 Alpha for Zone Number 7 0424 Zone 17 & 149 & 150 Z	0406	Zone 239 & 240 Partition Assign.	0475	Zone 121 & 122 Zone Type	0561	Alpha for Partition 2
0408 Zone 243 & 244 Partition Assign. 0.477 Zone 127 & 128 Zone Type 0533 Alpha for Partition 4 0410 Zone 247 & 248 Partition Assign. 0.478 Zone 127 & 128 Zone Type 0.662 Alpha for Partition 6 0411 Zone 18 Zone Type 0.480 Zone 133 & 133 Zone Type 0.661 Alpha for Partition 7 0416 Zone 18 Zone Type 0.481 Zone 133 & 133 Zone Type 0.6673 Alpha for Partition 7 0418 Zone 7 & 8 Zone Type 0.482 Zone 133 & 133 Zone Type 0.6673 Alpha for Zone Number 1 0418 Zone 7 & 8 Zone Type 0.482 Zone 113 & 14 Zone Type 0.721 Alpha for Zone Number 3 0420 Zone 11 & 15 Zone Type 0.482 Zone 143 & 144 Zone Type 0.723 Alpha for Zone Number 6 0421 Zone 18 & 12 Zone Type 0.486 Zone 143 & 144 Zone Type 0.733 Alpha for Zone Number 6 0422 Zone 18 & 12 Zone Type 0.486 Zone 143 & 144 Zone Type 0.766 Alpha for Zone Number 7 0424 Zone 18 & 12 Zone Type 0.481 Zone 148 & 160 Zone Number 7 Alph	0407	Zone 241 & 242 Partition Assign.	0476	Zone 123 & 124 Zone Type	0577	Alpha for Partition 3
0400 Zone 248 & 246 Farition Assign. 0479 Zone 129 & 128 Zone Type 0613 Alpha for Partition 6 0410 Zone 247 & 248 Farition Assign. 0479 Zone 138 & 132 Zone Type 0621 Alpha for Partition 6 0416 Zone 3 & 42 Zone Type 0481 Zone 138 & 132 Zone Type 0657 Alpha for Partition 7 0417 Zone 5 & 6 Zone Type 0442 Zone 138 & 134 Zone Type 0653 Alpha for Partition 7 0418 Zone 7 & 88 Zone Type 0443 Zone 138 & 136 Zone Type 0638 Alpha for Zone Number 2 0419 Zone 7 & 88 Zone Type 0448 Zone 138 & 140 Zone Type 0721 Alpha for Zone Number 3 0420 Zone 13 & 14 Zone Type 0448 Zone 143 & 144 Zone Type 0753 Alpha for Zone Number 6 0421 Zone 13 & 18 Zone Type 0448 Zone 145 & 163 Zone Type 0753 Alpha for Zone Number 6 0422 Zone 18 & 20 Zone Type 0448 Zone 151 & 153 Zone Type 0753 Alpha for Zone Number 7 0422 Zone 18 & 20 Zone Type 0449 Zone 151 & 153 Zone Type 0761 <t< td=""><td>0408</td><td>Zone 243 & 244 Partition Assign.</td><td>0477</td><td>Zone 125 & 126 Zone Type</td><td>0593</td><td>Alpha for Partition 4</td></t<>	0408	Zone 243 & 244 Partition Assign.	0477	Zone 125 & 126 Zone Type	0593	Alpha for Partition 4
0410 Zone 247 & 248 Partition Assign. 04/9 Zone 128 & 130 Zone Type 0651 Alpha for Partition 6 0415 Zone 1 & 2 Zone Type 0480 Zone 133 & 132 Zone Type 0651 Alpha for Partition 7 0416 Zone 3 & 4 Zone Type 0481 Zone 133 & 133 Zone Type 0657 Alpha for Partition 7 0418 Zone 7 & 8 Zone Type 0482 Zone 137 & 138 Zone Type 0673 Alpha for Zone Number 1 0418 Zone 1 1 & 12 Zone Type 0448 Zone 139 & 140 Zone Type 0721 Alpha for Zone Number 3 0420 Zone 11 & 13 Zone Type 0448 Zone 147 & 142 Zone Type 0731 Alpha for Zone Number 6 0421 Zone 11 & 8 12 Zone Type 0448 Zone 147 & 148 Zone Type 0753 Alpha for Zone Number 7 0422 Zone 17 & 8 18 Zone Type 0448 Zone 147 & 148 Zone Type 0785 Alpha for Zone Number 8 0424 Zone 18 & 20 Zone Type 0449 Zone 155 & 154 Zone Type 0817 Alpha for Zone Number 10 0425 Zone 28 & 28 Zone Type 0449 Zone 155 & 154 Zone Type 0843 <td< td=""><td>0409</td><td>Zone 245 & 246 Partition Assign.</td><td>0478</td><td>Zone 127 & 128 Zone Type</td><td>0609</td><td>Alpha for Partition 5</td></td<>	0409	Zone 245 & 246 Partition Assign.	0478	Zone 127 & 128 Zone Type	0609	Alpha for Partition 5
0416 Zone 1 & 2 Zone 1 ype 0481 Zone 131 & 132 Zone Type 0657 Alpha for Partition 7 0416 Zone 3 & 4 Zone Type 0481 Zone 133 & 134 Zone Type 0657 Alpha for Zone Number 1 0417 Zone 7 & 8 Zone Type 0482 Zone 137 & 138 Zone Type 0673 Alpha for Zone Number 2 0419 Zone 7 & 8 Zone Type 0444 Zone 137 & 138 Zone Type 0765 Alpha for Zone Number 3 0412 Zone 18 & 14 Zone Type 0445 Zone 143 & 140 Zone Type 07721 Alpha for Zone Number 4 0421 Zone 18 & 16 Zone Type 0448 Zone 143 & 144 Zone Type 0773 Alpha for Zone Number 6 0422 Zone 18 & 16 Zone Type 0448 Zone 147 & 148 Zone Type 0785 Alpha for Zone Number 7 0424 Zone 18 & 18 Zone Type 0449 Zone 153 & 156 Zone Type 0785 Alpha for Zone Number 1 0425 Zone 2 & 22 Zone Type 0449 Zone 155 & 156 Zone Type 0813 Alpha for Zone Number 11 0426 Zone 158 & 156 Zone Type 0814 Alpha for Zone Number 12 0426	0410	Zone 247 & 248 Partition Assign.	0479	Zone 129 & 130 Zone Type	0625	Alpha for Partition 6
04117 Zone 3 & 4 Zone Type 0481 Zone 138 & 134 Zone Type 0657 Alpha for Zone Number 1 0418 Zone 7 & 8 Zone Type 0482 Zone 138 & 134 Zone Type 0673 Alpha for Zone Number 2 0419 Zone 9 & 10 Zone Type 0484 Zone 138 & 144 Zone Type 0705 Alpha for Zone Number 3 0420 Zone 11 & 12 Zone Type 0485 Zone 148 & 144 Zone Type 0773 Alpha for Zone Number 4 0421 Zone 11 & 8 L4 Zone Type 0486 Zone 148 & 144 Zone Type 0773 Alpha for Zone Number 6 0422 Zone 15 & 16 Zone Type 0487 Zone 148 & 144 Zone Type 0763 Alpha for Zone Number 7 0424 Zone 18 & 20 Zone Type 0489 Zone 148 & 124 Zone Type 0769 Alpha for Zone Number 7 0424 Zone 18 & 20 Zone Type 0490 Zone 153 & 154 Zone Type 0817 Alpha for Zone Number 1 0424 Zone 28 & 28 Zone Type 0491 Zone 158 & 156 Zone Type 0849 Alpha for Zone Number 13 0428 Zone 27 & 28 Zone Type 0494 Zone 158 & 156 Zone Type 0849 Alph	0415	Zone 1 & 2 Zone Type	0480	Zone 131 & 132 Zone Type	0641	Alpha for Partition 7
04117 Zone 5 & 6 Zone Type 0483 Zone 137 & 138 Zone Type 0689 Alpha for Zone Number 1 0419 Zone 7 & 8 Zone Type 0483 Zone 138 & 136 Zone Type 0721 Alpha for Zone Number 3 0420 Zone 11 & 14 Zone Type 0485 Zone 14 & 144 Zone Type 0721 Alpha for Zone Number 4 0421 Zone 11 & 14 Zone Type 0486 Zone 14 & 144 Zone Type 0773 Alpha for Zone Number 5 0422 Zone 17 & 18 Zone Type 0487 Zone 148 & 144 Zone Type 07763 Alpha for Zone Number 6 0423 Zone 17 & 18 Zone Type 0488 Zone 148 & 12 Zone Type 0763 Alpha for Zone Number 7 0424 Zone 19 & 20 Zone Type 0499 Zone 158 & 156 Zone Type 0481 Zone 158 & 156 Zone Type 0481 Zone 158 & 156 Zone Type 0431 Zone 158 Zone Type 0432 Zone 158 Zone Type 0432 Zone 158 Zone Type 0433 Alpha for Zone Number 1 0424 Zone 27 & 28 Zone Type 0493 Zone 158 Zone Type 0434 Zone 159 Zone Type 0434 Zone 159 Zone Type 0434 Zone Type <td>0416</td> <td>Zone 3 & 4 Zone Type</td> <td>0481</td> <td>Zone 133 & 134 Zone Type</td> <td>0657</td> <td>Alpha for Partition 8</td>	0416	Zone 3 & 4 Zone Type	0481	Zone 133 & 134 Zone Type	0657	Alpha for Partition 8
04119 Zone 7 & 8 Zone Type 0483 Zone 13% & 143 Zone Type 0755 Alpha for Zone Number 2 0419 Zone 91 & 0 Zone Type 0481 Zone 13 & 14 Zone Type 0705 Alpha for Zone Number 4 0421 Zone 11 & 12 Zone Type 0485 Zone 14 & 14 Zone Type 0737 Alpha for Zone Number 4 0422 Zone 15 & 16 Zone Type 0486 Zone 14 & 8 146 Zone Type 0737 Alpha for Zone Number 6 0423 Zone 17 & 18 Zone Type 0487 Zone 14 & 8 146 Zone Type 0769 Alpha for Zone Number 7 0424 Zone 17 & 18 Zone Type 0489 Zone 14 & 8 145 Zone Type 0781 Alpha for Zone Number 7 0426 Zone 23 & 24 Zone Type 0491 Zone 153 & 154 Zone Type 0817 Alpha for Zone Number 10 0427 Zone 23 & 24 Zone Type 0492 Zone 153 & 154 Zone Type 0818 Alpha for Zone Number 11 0428 Zone 27 & 28 Zone Type 0493 Zone 158 & 162 Zone Type 0849 Alpha for Zone Number 13 0430 Zone 31 & 32 Zone Type 0494 Zone 158 & 162 Zone Type 0818 Alp	0417	Zone 5 & 6 Zone Type	0482	Zone 135 & 136 Zone Type	0673	Alpha for Zone Number 1
0419 Zone 9 & 10 Zone 1ype 0484 Zone 13 & 14 Zone Type 0715 Alpha for Zone Number 3 0420 Zone 11 & 12 Zone Type 0485 Zone 143 & 144 Zone Type 0721 Alpha for Zone Number 4 0421 Zone 15 & 16 Zone Type 0486 Zone 14 & 146 Zone Type 0753 Alpha for Zone Number 5 0422 Zone 17 & 18 Zone Type 0488 Zone 148 & 146 Zone Type 0765 Alpha for Zone Number 6 0424 Zone 17 & 18 Zone Type 0489 Zone 153 & 154 Zone Type 0475 Alpha for Zone Number 7 0424 Zone 12 & 22 Zone Type 0490 Zone 155 & 156 Zone Type 0491 Zone 155 & 156 Zone Type 0481 Alpha for Zone Number 10 0426 Zone 27 & 28 Zone Type 0493 Zone 157 & 158 Zone Type 0483 Alpha for Zone Number 13 0430 Zone 33 & 34 Zone Type 0494 Zone 164 & 164 Zone Type 0887 Alpha for Zone Number 13 0431 Zone 33 & 34 Zone Type 0494 Zone 165 & 166 Zone Type 0897 Alpha for Zone Number 14 0432 Zone 38 34 Zone Type 04949 Zone	0418	Zone 7 & 8 Zone Type	0483	Zone 137 & 138 Zone Type	0689	Alpha for Zone Number 2
0421 Zone 11 & 12 Zone Type 0485 Zone 14 & 14 20en Type 0731 Alpha for Zone Number 4 0421 Zone 15 & 16 Zone Type 0486 Zone 143 & 14 Zone Type 0733 Alpha for Zone Number 5 0422 Zone 17 & 18 Zone Type 0487 Zone 144 & 142 Zone Type 0753 Alpha for Zone Number 6 0424 Zone 17 & 18 Zone Type 0488 Zone 148 & 148 Zone Type 0766 Alpha for Zone Number 7 0424 Zone 17 & 18 Zone Type 0490 Zone 154 & 152 Zone Type 0491 Zone 155 & 156 Zone Type 0491 Zone 155 & 156 Zone Type 0491 Zone 175 & 156 Zone Type 0491 Zone 175 & 156 Zone Type 0492 Zone 155 & 156 Zone Type 0481 Alpha for Zone Number 12 0428 Zone 27 & 28 Zone Type 0492 Zone 163 & 164 Zone Type 0881 Alpha for Zone Number 13 0430 Zone 38 & 34 Zone Type 0496 Zone 163 & 164 Zone Type 0887 Alpha for Zone Number 15 0431 Zone 38 & 34 Zone Type 0497 Zone 163 & 164 Zone Type 0937 Alpha for Zone Number 15 0432 Zone 37 & 38 Zon	0419	Zone 9 & 10 Zone Type	0484	Zone 139 & 140 Zone Type	0705	Alpha for Zone Number 3
0421 Zone 13 & 14 Zone Type 0486 Zone 143 & 144 Zone Type 0753 Alpha for Zone Number 5 0422 Zone 17 & 18 Zone Type 0488 Zone 147 & 148 Zone Type 0753 Alpha for Zone Number 6 0424 Zone 17 & 18 Zone Type 0488 Zone 148 & 20 Zone Type 0489 Zone 148 & 162 Zone Type 0475 Alpha for Zone Number 7 0424 Zone 13 & 22 Zone Type 0490 Zone 151 & 152 Zone Type 0481 Alpha for Zone Number 9 0425 Zone 23 & 22 Zone Type 0491 Zone 155 & 156 Zone Type 0483 Alpha for Zone Number 10 0426 Zone 27 & 28 Zone Type 0493 Zone 157 & 158 Zone Type 0483 Alpha for Zone Number 13 0430 Zone 31 & 32 Zone Type 0494 Zone 163 & 162 Zone Type 0481 Alpha for Zone Number 14 0431 Zone 33 & 32 Zone Type 0496 Zone 167 & 168 Zone Type 0913 Alpha for Zone Number 15 0432 Zone 33 & 32 Zone Type 0496 Zone 167 & 168 Zone Type 0913 Alpha for Zone Number 16 0432 Zone 38 40 Zone Type 0498 Z	0420	Zone 11 & 12 Zone Type	0485	Zone 141 & 142 Zone Type	0721	Alpha for Zone Number 4
0422 Zone 15 & 16 Zone Type 0487 Zone 145 & 148 Zone Type 0753 Alpha for Zone Number 7 0424 Zone 17 & 18 Zone Type 0448 Zone 149 & 150 Zone Type 0765 Alpha for Zone Number 7 0424 Zone 18 & 20 Zone Type 0449 Zone 158 & 152 Zone Type 0801 Alpha for Zone Number 9 0426 Zone 21 & 22 Zone Type 0491 Zone 155 & 156 Zone Type 0817 Alpha for Zone Number 10 0427 Zone 27 & 82 Zone Type 0492 Zone 158 & 156 Zone Type 0817 Alpha for Zone Number 12 0428 Zone 27 & 82 Zone Type 0449 Zone 158 & 166 Zone Type 0845 Alpha for Zone Number 13 0429 Zone 31 & 32 Zone Type 04494 Zone 158 & 160 Zone Type 0885 Alpha for Zone Number 14 0431 Zone 31 & 32 Zone Type 04496 Zone 163 & 166 Zone Type 09913 Alpha for Zone Number 15 0432 Zone 38 & 40 Zone Type 0459 Zone 167 & 188 Zone Type 0945 Alpha for Zone Number 17 0433 Zone 41 & 42 Zone Type 0501 Zone 173 & 174 Zone Type 0961	0421	Zone 13 & 14 Zone Type	0486	Zone 143 & 144 Zone Type	0737	Alpha for Zone Number 5
0423 Zone 17 & 18 Zone Type 0488 Zone 147 & 148 Zone Type 0769 Alpha for Zone Number 8 0424 Zone 19 & 20 Zone Type 04490 Zone 134 & 150 Zone Type 0781 Alpha for Zone Number 8 0425 Zone 21 & 22 Zone Type 0490 Zone 153 & 156 Zone Type 0811 Alpha for Zone Number 10 0427 Zone 23 & 24 Zone Type 0491 Zone 155 & 156 Zone Type 0833 Alpha for Zone Number 11 0428 Zone 27 & 28 Zone Type 0493 Zone 157 & 158 Zone Type 0843 Alpha for Zone Number 12 04429 Zone 31 & 32 Zone Type 0494 Zone 156 & 160 Zone Type 0861 Alpha for Zone Number 13 0430 Zone 33 & 32 Zone Type 0496 Zone 165 & 166 Zone Type 0811 Alpha for Zone Number 16 0432 Zone 38 & 40 Zone Type 0497 Zone 167 & 168 Zone Type 0913 Alpha for Zone Number 17 0434 Zone 38 & 40 Zone Type 0498 Zone 167 & 168 Zone Type 0951 Alpha for Zone Number 18 0435 Zone 41 & 42 Zone Type 0500 Zone 177 & 172 Zone Type 0961	0422	Zone 15 & 16 Zone Type	0487	Zone 145 & 146 Zone Type	0753	Alpha for Zone Number 6
0424 Zone 19 & 20 zone Type 0449 Zone 149 & 150 zone 1ype 0785 Alpha for Zone Number 3 0425 Zone 21 & 22 zone Type 04491 Zone 153 & 152 Zone Type 0817 Alpha for Zone Number 10 0427 Zone 23 & 22 Zone Type 04491 Zone 155 & 156 Zone Type 0817 Alpha for Zone Number 11 0428 Zone 27 & 28 Zone Type 04492 Zone 157 & 158 Zone Type 0843 Alpha for Zone Number 12 0429 Zone 28 & 30 Zone Type 04494 Zone 158 & 168 Zone Type 0845 Alpha for Zone Number 13 0430 Zone 31 & 32 Zone Type 04496 Zone 163 & 162 Zone Type 0887 Alpha for Zone Number 14 0431 Zone 33 & 34 Zone Type 04497 Zone 165 & 166 Zone Type 0897 Alpha for Zone Number 16 0432 Zone 37 & 38 Zone Type 04497 Zone 167 & 168 Zone Type 0929 Alpha for Zone Number 17 0433 Zone 13 & 32 Zone Type 0500 Zone 173 & 172 Zone Type 0961 Alpha for Zone Number 18 0433 Zone 41 & 42 Zone Type 0501 Zone 173 & 174 Zone Type 0977	0423	Zone 17 & 18 Zone Type	0488	Zone 147 & 148 Zone Type	0769	Alpha for Zone Number 7
0425 Zone 21 & 22 Zone Type 0490 Zone 151 & 152 Zone Type 0801 Alpha for Zone Number 10 0426 Zone 25 & 24 Zone Type 0492 Zone 155 & 156 Zone Type 0833 Alpha for Zone Number 11 0428 Zone 25 & 26 Zone Type 0493 Zone 157 & 158 Zone Type 0843 Alpha for Zone Number 12 0429 Zone 25 & 30 Zone Type 04494 Zone 157 & 158 Zone Type 0865 Alpha for Zone Number 13 0430 Zone 33 & 34 Zone Type 04495 Zone 161 & 162 Zone Type 0881 Alpha for Zone Number 16 0431 Zone 33 & 34 Zone Type 0449 Zone 165 & 166 Zone Type 0913 Alpha for Zone Number 16 0433 Zone 37 & 38 Zone Type 0449 Zone 167 & 168 Zone Type 0914 Alpha for Zone Number 17 0434 Zone 43 & 44 Zone Type 0500 Zone 174 & 172 Zone Type 0917 Alpha for Zone Number 13 0435 Zone 478 & 46 Zone Type 0502 Zone 178 & 176 Zone Type 0917 Alpha for Zone Number 20 0437 Zone 478 & 46 Zone Type 0502 Zone 178 & 176 Zone Type 0917	0424	Zone 19 & 20 Zone Type	0489	Zone 149 & 150 Zone Type	0785	Alpha for Zone Number 8
0427 Zone 25 & 26 Zone Type 0491 Zone 153 & 154 Zone Type 0487 Appha for Zone Number 11 0428 Zone 27 & 28 Zone Type 0493 Zone 157 & 158 Zone Type 0849 Alpha for Zone Number 13 0429 Zone 31 & 32 Zone Type 0494 Zone 157 & 158 Zone Type 0849 Alpha for Zone Number 13 0430 Zone 31 & 32 Zone Type 0494 Zone 158 & 166 Zone Type 0881 Alpha for Zone Number 14 0431 Zone 33 & 32 Zone Type 0495 Zone 163 & 164 Zone Type 0897 Alpha for Zone Number 15 0432 Zone 35 & 36 Zone Type 0497 Zone 166 Xe 166 Zone Type 0997 Alpha for Zone Number 16 0433 Zone 38 & 40 Zone Type 0498 Zone 167 & 168 Zone Type 0929 Alpha for Zone Number 17 0434 Zone 38 & 40 Zone Type 0501 Zone 178 & 176 Zone Type 0945 Alpha for Zone Number 12 0435 Zone 41 & 42 Zone Type 0501 Zone 178 & 176 Zone Type 0997 Alpha for Zone Number 22 0436 Zone 48 & 46 Zone Type 0502 Zone 178 & 176 Zone Type 0977	0425	Zone 21 & 22 Zone Type	0490	Zone 151 & 152 Zone Type	0801	Alpha for Zone Number 9
U427 Zone 27 & 28 Zone Type U492 Zone 15% & 156 Zone Type U493 Zone 17% & 158 Zone Type U493 Zone 17% & 158 Zone Type U494 Zone 157 & 158 Zone Type U496 Zone 157 & 158 Zone Type U496 Zone 157 & 158 Zone Type U496 Zone 163 & 164 Zone Type U481 Alpha for Zone Number 13 0431 Zone 33 & 34 Zone Type U496 Zone 163 & 166 Zone Type 0913 Alpha for Zone Number 15 0432 Zone 37 & 36 Zone Type U497 Zone 165 & 166 Zone Type 0913 Alpha for Zone Number 16 0433 Zone 37 & 36 Zone Type U498 Zone 169 & 170 Zone Type 0929 Alpha for Zone Number 17 0434 Zone 43 & 44 Zone Type 0500 Zone 173 & 174 Zone Type 0946 Alpha for Zone Number 12 0435 Zone 43 & 44 Zone Type 0502 Zone 175 & 176 Zone Type 0993 Alpha for Zone Number 20 0435 Zone 47 & 48 Zone Type 0504 Zone 177 & 178 Zone Type 10094 Alpha for Zone Number 22	0426	Zone 23 & 24 Zone Type	0491	Zone 153 & 154 Zone Type	0817	Alpha for Zone Number 10
Ud28 Zone 12 & X28 Zone Type Ud39 Zone 15 X 158 Zone Type Ud845 Alpha for Zone Number 12 0429 Zone 29 & 30 Zone Type 0495 Zone 169 & 160 Zone Type 0865 Alpha for Zone Number 13 0430 Zone 33 & 32 Zone Type 0495 Zone 168 & 164 Zone Type 0887 Alpha for Zone Number 14 0431 Zone 35 & 36 Zone Type 0496 Zone 168 & 164 Zone Type 0897 Alpha for Zone Number 16 0432 Zone 38 & 36 Zone Type 0498 Zone 168 & 166 Zone Type 0929 Alpha for Zone Number 17 0432 Zone 41 & 42 Zone Type 0498 Zone 168 & 166 Zone Type 0945 Alpha for Zone Number 17 0435 Zone 41 & 42 Zone Type 0501 Zone 178 & 174 Zone Type 0947 Alpha for Zone Number 20 0436 Zone 47 & 48 Zone Type 0501 Zone 177 & 178 Zone Type 0993 Alpha for Zone Number 22 0438 Zone 47 & 48 Zone Type 0503 Zone 177 & 178 Zone Type 10025 Alpha for Zone Number 22 0438 Zone 53 & 54 Zone Type 0505 Zone 183 & 184 Zone Type 1025	0427	Zone 25 & 26 Zone Type	0492	Zone 155 & 156 Zone Type	0833	Alpha for Zone Number 11
04430 Zone 31 & 32 Zone Type 0494 Zone 159 & 160 Zone Type 0485 Alpha for Zone Number 14 0430 Zone 31 & 32 Zone Type 0496 Zone 161 & 162 Zone Type 0881 Alpha for Zone Number 14 0431 Zone 33 & 34 Zone Type 0496 Zone 165 & 166 Zone Type 0913 Alpha for Zone Number 14 0431 Zone 35 & 36 Zone Type 0497 Zone 167 & 168 Zone Type 0913 Alpha for Zone Number 16 0432 Zone 35 & 36 Zone Type 0499 Zone 167 & 168 Zone Type 0929 Alpha for Zone Number 17 0434 Zone 41 & 42 Zone Type 0499 Zone 169 & 170 Zone Type 0945 Alpha for Zone Number 17 0435 Zone 41 & 42 Zone Type 0501 Zone 173 & 174 Zone Type 0947 Alpha for Zone Number 20 0436 Zone 47 & 48 Zone Type 0502 Zone 175 & 178 Zone Type 0937 Alpha for Zone Number 20 0437 Zone 48 & 42 Zone Type 0504 Zone 178 & 178 Zone Type 0937 Alpha for Zone Number 20 0438 Zone 51 & 52 Zone Type 0504 Zone 178 & 178 Zone Type 10105	0428	Zone 27 & 28 Zone Type	0493	Zone 157 & 158 Zone Type	0849	Alpha for Zone Number 12
0431 Zone 13 & 32 Zone 1ype 0495 Zone 161 & 102 Zone 1ype 0887 Alpha for Zone Number 14 0431 Zone 33 & 34 Zone Type 0497 Zone 163 & 164 Zone Type 0913 Alpha for Zone Number 15 0432 Zone 37 & 38 Zone Type 0497 Zone 165 & 166 Zone Type 0929 Alpha for Zone Number 16 0433 Zone 37 & 38 Zone Type 0498 Zone 167 & 168 Zone Type 0929 Alpha for Zone Number 17 0434 Zone 38 & 40 Zone Type 0499 Zone 169 & 170 Zone Type 0945 Alpha for Zone Number 18 0435 Zone 43 & 44 Zone Type 0500 Zone 173 & 174 Zone Type 0977 Alpha for Zone Number 19 0438 Zone 45 & 46 Zone Type 0503 Zone 175 & 176 Zone Type 0993 Alpha for Zone Number 21 0438 Zone 47 & 48 Zone Type 0503 Zone 177 & 178 Zone Type 1009 Alpha for Zone Number 22 0439 Zone 61 & 55 Zone Type 0505 Zone 181 & 182 Zone Type 1025 Alpha for Zone Number 23 0440 Zone 53 & 63 Zone Type 0506 Zone 183 & 184 Zone Type 1057 Alpha for Zone Number 24 0441 Zone 53 & 64 Zone Type <td>0429</td> <td>Zone 29 & 30 Zone Type</td> <td>0494</td> <td>Zone 159 & 160 Zone Type</td> <td>0865</td> <td>Alpha for Zone Number 13</td>	0429	Zone 29 & 30 Zone Type	0494	Zone 159 & 160 Zone Type	0865	Alpha for Zone Number 13
0431 Zone 35 & 36 Zone Type 0496 Zone 165 & 166 Zone Type 0917 Alpha for Zone Number 16 0432 Zone 35 & 36 Zone Type 0497 Zone 165 & 166 Zone Type 0929 Alpha for Zone Number 17 0433 Zone 37 & 38 Zone Type 0498 Zone 169 & 170 Zone Type 0945 Alpha for Zone Number 18 0435 Zone 41 & 42 Zone Type 0500 Zone 178 & 172 Zone Type 0946 Alpha for Zone Number 19 0436 Zone 43 & 44 Zone Type 0501 Zone 178 & 172 Zone Type 09977 Alpha for Zone Number 20 0437 Zone 45 & 50 Zone Type 0502 Zone 175 & 176 Zone Type 09977 Alpha for Zone Number 21 0438 Zone 47 & 48 Zone Type 0501 Zone 177 & 178 Zone Type 1009 Alpha for Zone Number 22 0433 Zone 47 & 48 Zone Type 0504 Zone 179 & 180 Zone Type 10057 Alpha for Zone Number 24 0440 Zone 53 & 54 Zone Type 0505 Zone 183 & 184 Zone Type 1057 Alpha for Zone Number 25 0444 Zone 57 & 58 Zone Type 0508 Zone 187 & 188 Zone Type 1057 Alpha for Zone Number 26 0444 Zone 57 & 58 Zone Type	0430	Zone 31 & 32 Zone Type	0495	Zone 161 & 162 Zone Type	0881	Alpha for Zone Number 14
0432 Zone 38 x8 Zone Type 0497 Zone 16x 8 tob Zone Type 0913 Alpha for Zone Number 17 0433 Zone 37 & 83 Zone Type 0498 Zone 167 & 168 Zone Type 0929 Alpha for Zone Number 17 0434 Zone 39 & 40 Zone Type 0499 Zone 167 & 168 Zone Type 0945 Alpha for Zone Number 18 0435 Zone 41 & 44 Zone Type 0500 Zone 171 & 172 Zone Type 0977 Alpha for Zone Number 20 0437 Zone 45 & 44 Zone Type 0502 Zone 175 & 176 Zone Type 0993 Alpha for Zone Number 21 0438 Zone 47 & 48 Zone Type 0502 Zone 177 & 178 Zone Type 0993 Alpha for Zone Number 22 0440 Zone 51 & 52 Zone Type 0505 Zone 178 & 180 Zone Type 10057 Alpha for Zone Number 23 0441 Zone 53 & 54 Zone Type 0506 Zone 183 & 184 Zone Type 1073 Alpha for Zone Number 25 0442 Zone 58 & 56 Zone Type 0506 Zone 183 & 184 Zone Type 1073 Alpha for Zone Number 26 0444 Zone 58 & 66 Zone Type 0509 Zone 189 & 190 Zone Type 1057	0431	Zone 33 & 34 Zone Type	0496	Zone 163 & 164 Zone Type	0897	Alpha for Zone Number 15
0433 Zone 39 & 40 Zone Type 0499 Zone 169 & 170 Zone Type 0929 Alpha for Zone Number 17 0434 Zone 39 & 40 Zone Type 0499 Zone 169 & 170 Zone Type 0961 Alpha for Zone Number 19 0435 Zone 41 & 42 Zone Type 0500 Zone 173 & 174 Zone Type 0977 Alpha for Zone Number 19 0436 Zone 43 & 44 Zone Type 0501 Zone 175 & 176 Zone Type 0993 Alpha for Zone Number 20 0438 Zone 47 & 48 Zone Type 0502 Zone 175 & 176 Zone Type 0993 Alpha for Zone Number 21 0438 Zone 47 & 48 Zone Type 0503 Zone 177 & 178 Zone Type 1009 Alpha for Zone Number 22 0439 Zone 47 & 48 Zone Type 0505 Zone 181 & 182 Zone Type 1025 Alpha for Zone Number 23 0440 Zone 51 & 52 Zone Type 0506 Zone 183 & 184 Zone Type 1057 Alpha for Zone Number 25 0441 Zone 55 & 56 Zone Type 0506 Zone 183 & 190 Zone Type 1073 Alpha for Zone Number 26 0444 Zone 58 & 66 Zone Type 0509 Zone 183 & 190 Zone Type 1089 Alpha for Zone Number 29 0444 Zone 63 & 64 Zone Type <td>0432</td> <td>Zone 35 & 36 Zone Type</td> <td>0497</td> <td>Zone 165 & 166 Zone Type</td> <td>0913</td> <td>Alpha for Zone Number 16</td>	0432	Zone 35 & 36 Zone Type	0497	Zone 165 & 166 Zone Type	0913	Alpha for Zone Number 16
0433 Zone 39 & 40 Zone Type 0499 Zone 109 & 170 Zone Type 0943 Alpha for Zone Number 19 0436 Zone 41 & 42 Zone Type 0500 Zone 173 & 172 Zone Type 0991 Alpha for Zone Number 19 0436 Zone 43 & 44 Zone Type 0500 Zone 175 & 176 Zone Type 0993 Alpha for Zone Number 20 0437 Zone 47 & 48 Zone Type 0502 Zone 175 & 176 Zone Type 0993 Alpha for Zone Number 21 0438 Zone 47 & 48 Zone Type 0502 Zone 177 & 178 Zone Type 1009 Alpha for Zone Number 23 0440 Zone 51 & 52 Zone Type 0505 Zone 183 & 180 Zone Type 1025 Alpha for Zone Number 23 0441 Zone 55 & 56 Zone Type 0507 Zone 183 & 184 Zone Type 1057 Alpha for Zone Number 26 04442 Zone 55 & 56 Zone Type 0508 Zone 183 & 184 Zone Type 1057 Alpha for Zone Number 27 0444 Zone 59 & 60 Zone Type 0509 Zone 183 & 194 Zone Type 1057 Alpha for Zone Number 28 0444 Zone 61 & 62 Zone Type 0511 Zone 193 & 194 Zone Type 1105 Alpha for Zone Number 29 0444 Zone 67 & 68 Zone Type </td <td>0433</td> <td>Zone 37 & 38 Zone Type</td> <td>0498</td> <td>Zone 167 & 168 Zone Type</td> <td>0929</td> <td>Alpha for Zone Number 17</td>	0433	Zone 37 & 38 Zone Type	0498	Zone 167 & 168 Zone Type	0929	Alpha for Zone Number 17
0436 Zone 43 & 44 Zone Type 0501 Zone 173 & 174 Zone Type 0977 Alpha for Zone Number 20 0437 Zone 45 & 44 Zone Type 0501 Zone 173 & 174 Zone Type 0993 Alpha for Zone Number 20 0438 Zone 47 & 48 Zone Type 0501 Zone 177 & 178 Zone Type 0993 Alpha for Zone Number 20 0438 Zone 47 & 48 Zone Type 0502 Zone 177 & 178 Zone Type 0109 Alpha for Zone Number 20 0439 Zone 47 & 48 Zone Type 0504 Zone 179 & 180 Zone Type 1025 Alpha for Zone Number 23 0440 Zone 51 & 52 Zone Type 0505 Zone 181 & 182 Zone Type 1057 Alpha for Zone Number 24 0441 Zone 53 & 54 Zone Type 0506 Zone 183 & 184 Zone Type 1057 Alpha for Zone Number 25 0442 Zone 58 & 56 Zone Type 0507 Zone 183 & 186 Zone Type 1057 Alpha for Zone Number 20 0444 Zone 59 & 60 Zone Type 0509 Zone 183 & 186 Zone Type 1057 Alpha for Zone Number 23 0444 Zone 61 & 62 Zone Type 0510 Zone 191 & 192 Zone Type 1105 Alpha for Zone Number 30 0444 Zone 67 & 68 Zone Type <td>0434</td> <td></td> <td>0499</td> <td></td> <td>0945</td> <td>Alpha for Zone Number 10</td>	0434		0499		0945	Alpha for Zone Number 10
0437 Zone 45 & 44 Zone Type 0501 Zone 175 & 176 Zone Type 0993 Alpha for Zone Number 20 0438 Zone 47 & 48 Zone Type 0502 Zone 177 & 178 Zone Type 0093 Alpha for Zone Number 21 0438 Zone 47 & 48 Zone Type 0503 Zone 179 & 180 Zone Type 1009 Alpha for Zone Number 23 0440 Zone 51 & 52 Zone Type 0505 Zone 1179 & 180 Zone Type 1025 Alpha for Zone Number 24 0441 Zone 53 & 54 Zone Type 0506 Zone 1181 & 182 Zone Type 1057 Alpha for Zone Number 25 0442 Zone 57 & 58 Zone Type 0507 Zone 185 & 186 Zone Type 1057 Alpha for Zone Number 26 0444 Zone 57 & 58 Zone Type 0508 Zone 187 & 188 Zone Type 1057 Alpha for Zone Number 26 0444 Zone 63 & 64 Zone Type 0510 Zone 189 & 190 Zone Type 1057 Alpha for Zone Number 28 0444 Zone 63 & 64 Zone Type 0510 Zone 193 & 194 Zone Type 1121 Alpha for Zone Number 29 0444 Zone 63 & 64 Zone Type 0511 Zone 193 & 194 Zone Type 1137 Alpha for Zone Number 30 0444 Zone 67 & 68 Zone Type<	0435		0500		0901	Alpha for Zone Number 19
0438 Zone 478 & 48 Zone Type 0502 Zone 177 & 178 Zone Type 1009 Alpha for Zone Number 22 0439 Zone 47 & 48 Zone Type 0502 Zone 177 & 178 Zone Type 1005 Alpha for Zone Number 23 0440 Zone 51 & 52 Zone Type 0505 Zone 181 & 182 Zone Type 1005 Alpha for Zone Number 23 0441 Zone 55 & 56 Zone Type 0506 Zone 183 & 184 Zone Type 1057 Alpha for Zone Number 24 0442 Zone 57 & 58 Zone Type 0507 Zone 183 & 184 Zone Type 1057 Alpha for Zone Number 25 0443 Zone 57 & 58 Zone Type 0507 Zone 187 & 178 Zone Type 1057 Alpha for Zone Number 26 0443 Zone 57 & 58 Zone Type 0509 Zone 187 & 188 Zone Type 1057 Alpha for Zone Number 26 0444 Zone 61 & 62 Zone Type 0510 Zone 189 & 190 Zone Type 1105 Alpha for Zone Number 28 0444 Zone 63 & 64 Zone Type 0511 Zone 193 & 194 Zone Type 1113 Alpha for Zone Number 30 0444 Zone 64 & 66 Zone Type 0513 Zone 197 & 198 Zone Type 1169 Alpha for Zone Number 32 0444 Zone 67 & 68 Zone Type </td <td>0430</td> <td></td> <td>0501</td> <td></td> <td>0977</td> <td>Alpha for Zone Number 20</td>	0430		0501		0977	Alpha for Zone Number 20
0439 Zone 47 & 48 20 left Type 0503 Zone 177 & 178 20 left Type 10059 Alpha for Zone Number 22 0440 Zone 51 & 52 Zone Type 0505 Zone 181 & 182 Zone Type 1041 Alpha for Zone Number 23 0441 Zone 53 & 54 Zone Type 0505 Zone 183 & 184 Zone Type 1057 Alpha for Zone Number 24 0441 Zone 55 & 56 Zone Type 0507 Zone 183 & 184 Zone Type 1057 Alpha for Zone Number 25 0442 Zone 55 & 56 Zone Type 0507 Zone 187 & 188 Zone Type 1089 Alpha for Zone Number 26 0444 Zone 57 & 58 Zone Type 0508 Zone 187 & 188 Zone Type 1089 Alpha for Zone Number 27 0444 Zone 59 & 60 Zone Type 0510 Zone 187 & 188 Zone Type 1105 Alpha for Zone Number 28 0445 Zone 61 & 62 Zone Type 0510 Zone 193 & 194 Zone Type 11121 Alpha for Zone Number 30 0444 Zone 63 & 64 Zone Type 0511 Zone 193 & 194 Zone Type 1153 Alpha for Zone Number 32 0444 Zone 65 & 66 Zone Type 0511 Zone 197 & 198 Zone Type 1153 Alpha for Zone Number 32 0444 Zone 67 & 68 Zone	0437		0502		1000	Alpha for Zone Number 22
0440 Zone 54 & 30 Zone Type 0504 Zone 173 & 162 Zone Type 1023 Alpha for Zone Number 23 0440 Zone 53 & 52 Zone Type 0505 Zone 183 & 184 Zone Type 1041 Alpha for Zone Number 24 0441 Zone 53 & 54 Zone Type 0506 Zone 183 & 184 Zone Type 1057 Alpha for Zone Number 25 0442 Zone 57 & 58 Zone Type 0507 Zone 183 & 184 Zone Type 1067 Alpha for Zone Number 26 0444 Zone 57 & 58 Zone Type 0508 Zone 187 & 188 Zone Type 1073 Alpha for Zone Number 26 0444 Zone 57 & 58 Zone Type 0509 Zone 187 & 188 Zone Type 1089 Alpha for Zone Number 27 0444 Zone 61 & 62 Zone Type 0510 Zone 191 & 192 Zone Type 1121 Alpha for Zone Number 28 0445 Zone 61 & 62 Zone Type 0511 Zone 193 & 194 Zone Type 1137 Alpha for Zone Number 30 0444 Zone 67 & 68 Zone Type 0511 Zone 193 & 194 Zone Type 1153 Alpha for Zone Number 31 0448 Zone 67 & 68 Zone Type 0514 Zone 199 & 200 Zone Type 1169 Alpha for Zone Number 32 0444 Zone 69 & 70 Zone Type <td>0430</td> <td></td> <td>0503</td> <td></td> <td>1009</td> <td>Alpha for Zone Number 22</td>	0430		0503		1009	Alpha for Zone Number 22
Od410 Zone 51 & 32 Zone Type OS03 Zone 183 & 182 Zone Type Total Total Zone Number 24 0441 Zone 53 & 54 Zone Type 0507 Zone 183 & 184 Zone Type 1073 Alpha for Zone Number 25 0442 Zone 55 & 56 Zone Type 0507 Zone 183 & 184 Zone Type 1073 Alpha for Zone Number 26 0443 Zone 57 & 58 Zone Type 0509 Zone 187 & 188 Zone Type 1089 Alpha for Zone Number 27 0444 Zone 61 & 62 Zone Type 0509 Zone 189 & 190 Zone Type 1105 Alpha for Zone Number 27 0445 Zone 61 & 62 Zone Type 0510 Zone 191 & 192 Zone Type 1115 Alpha for Zone Number 29 0446 Zone 63 & 64 Zone Type 0511 Zone 193 & 192 Zone Type 11153 Alpha for Zone Number 30 0447 Zone 63 & 64 Zone Type 0513 Zone 197 & 198 Zone Type 1153 Alpha for Zone Number 32 0444 Zone 67 & 68 Zone Type 0514 Zone 198 & 200 Zone Type 1169 Alpha for Zone Number 32 0447 Zone 69 & 70 Zone Type 0515 Zone 203 & 204 Zone Type 1217 Alpha for Zo	0439		0504	Zono 191 & 192 Zono Type	1025	Alpha for Zone Number 23
0441 Zone 53 & 34 Zone Type 0506 Zone 185 & 184 Zone Type 1073 Alpha for Zone Number 26 0442 Zone 57 & 58 Zone Type 0507 Zone 185 & 186 Zone Type 1073 Alpha for Zone Number 26 0444 Zone 57 & 58 Zone Type 0509 Zone 187 & 188 Zone Type 1089 Alpha for Zone Number 27 0444 Zone 53 & 64 Zone Type 0509 Zone 189 & 190 Zone Type 1105 Alpha for Zone Number 28 0444 Zone 63 & 64 Zone Type 0510 Zone 191 & 192 Zone Type 1121 Alpha for Zone Number 29 0444 Zone 63 & 64 Zone Type 0511 Zone 193 & 194 Zone Type 1137 Alpha for Zone Number 30 0444 Zone 65 & 66 Zone Type 0511 Zone 193 & 194 Zone Type 1153 Alpha for Zone Number 30 0444 Zone 65 & 66 Zone Type 0511 Zone 193 & 198 Zone Type 1169 Alpha for Zone Number 32 0444 Zone 65 & 66 Zone Type 0514 Zone 199 & 200 Zone Type 1185 Alpha for Zone Number 33 0445 Zone 71 & 72 Zone Type 0515 Zone 203 & 204 Zone Type 1217 Alpha for Zone Number 35 0452 Zone 75 & 76 Zone Type <td>0440</td> <td></td> <td>0505</td> <td>Zone 182 & 184 Zone Type</td> <td>1041</td> <td>Alpha for Zone Number 24</td>	0440		0505	Zone 182 & 184 Zone Type	1041	Alpha for Zone Number 24
0443 Zone 57 & 58 Zone Type 0507 Zone 187 & 188 Zone Type 1089 Alpha for Zone Number 27 0444 Zone 57 & 58 Zone Type 0508 Zone 187 & 188 Zone Type 1089 Alpha for Zone Number 28 0444 Zone 63 & 64 Zone Type 0510 Zone 191 & 192 Zone Type 1105 Alpha for Zone Number 29 0444 Zone 63 & 64 Zone Type 0511 Zone 193 & 194 Zone Type 1121 Alpha for Zone Number 29 0444 Zone 65 & 66 Zone Type 0511 Zone 193 & 194 Zone Type 1137 Alpha for Zone Number 30 0444 Zone 67 & 68 Zone Type 0513 Zone 197 & 198 Zone Type 1153 Alpha for Zone Number 30 0444 Zone 67 & 68 Zone Type 0513 Zone 197 & 198 Zone Type 1169 Alpha for Zone Number 31 0448 Zone 67 & 68 Zone Type 0514 Zone 199 & 200 Zone Type 1185 Alpha for Zone Number 32 0445 Zone 71 & 72 Zone Type 0515 Zone 201 & 202 Zone Type 1201 Alpha for Zone Number 33 0450 Zone 77 & 78 Zone Type 0517 Zone 203 & 204 Zone Type 1217 Alpha for Zone Number 36 0453 Zone 77 & 8 Zone Type <td>0441</td> <td>Zone 55 & 56 Zone Type</td> <td>0507</td> <td>Zone 185 & 186 Zone Type</td> <td>1037</td> <td>Alpha for Zone Number 26</td>	0441	Zone 55 & 56 Zone Type	0507	Zone 185 & 186 Zone Type	1037	Alpha for Zone Number 26
0443 Zone 57 & 30 Zone Type 0500 Zone 189 & 190 Zone Type 1105 Alpha for Zone Number 27 0444 Zone 59 & 60 Zone Type 0510 Zone 189 & 190 Zone Type 1105 Alpha for Zone Number 29 0444 Zone 63 & 64 Zone Type 0510 Zone 191 & 192 Zone Type 1121 Alpha for Zone Number 29 0446 Zone 63 & 64 Zone Type 0511 Zone 193 & 194 Zone Type 1137 Alpha for Zone Number 29 0447 Zone 65 & 66 Zone Type 0512 Zone 195 & 196 Zone Type 1153 Alpha for Zone Number 30 0448 Zone 67 & 68 Zone Type 0513 Zone 197 & 198 Zone Type 1169 Alpha for Zone Number 31 0448 Zone 69 & 70 Zone Type 0513 Zone 197 & 198 Zone Type 1185 Alpha for Zone Number 32 0449 Zone 69 & 70 Zone Type 0514 Zone 199 & 200 Zone Type 1185 Alpha for Zone Number 33 0450 Zone 71 & 72 Zone Type 0516 Zone 203 & 204 Zone Type 1217 Alpha for Zone Number 35 0452 Zone 75 & 76 Zone Type 0517 Zone 207 & 208 Zone Type 1233 Alpha for Zone Number 37 0454 Zone 79 & 80 Zone Type <td>0442</td> <td>Zone 57 & 58 Zone Type</td> <td>0508</td> <td>Zone 187 & 188 Zone Type</td> <td>1073</td> <td>Alpha for Zone Number 27</td>	0442	Zone 57 & 58 Zone Type	0508	Zone 187 & 188 Zone Type	1073	Alpha for Zone Number 27
0445Zone 61 & 62 Zone Type0510Zone 103 & 103 Zone 191 & 192 Zone Type1121Alpha for Zone Number 290446Zone 63 & 64 Zone Type0511Zone 193 & 194 Zone Type1137Alpha for Zone Number 300447Zone 65 & 66 Zone Type0512Zone 195 & 196 Zone Type1153Alpha for Zone Number 310448Zone 67 & 68 Zone Type0513Zone 197 & 198 Zone Type1169Alpha for Zone Number 310448Zone 69 & 70 Zone Type0514Zone 199 & 200 Zone Type1169Alpha for Zone Number 320449Zone 69 & 70 Zone Type0515Zone 199 & 200 Zone Type1185Alpha for Zone Number 330450Zone 71 & 72 Zone Type0516Zone 203 & 204 Zone Type1201Alpha for Zone Number 340451Zone 73 & 74 Zone Type0517Zone 205 & 206 Zone Type1217Alpha for Zone Number 350452Zone 75 & 76 Zone Type0518Zone 207 & 208 Zone Type1233Alpha for Zone Number 360453Zone 79 & 80 Zone Type0519Zone 209 & 210 Zone Type1265Alpha for Zone Number 370454Zone 79 & 80 Zone Type0520Zone 211 & 212 Zone Type1281Alpha for Zone Number 380455Zone 81 & 82 Zone Type0521Zone 213 & 214 Zone Type1297Alpha for Zone Number 390456Zone 83 & 84 Zone Type0522Zone 215 & 216 Zone Type1297Alpha for Zone Number 400457Zone 87 & 88 Zone Type0523Zone 217 & 218 Zone Type1329Alpha for Zone Number 42 <td>0443</td> <td>Zone 59 & 60 Zone Type</td> <td>0500</td> <td>Zone 189 & 190 Zone Type</td> <td>1105</td> <td>Alpha for Zone Number 28</td>	0443	Zone 59 & 60 Zone Type	0500	Zone 189 & 190 Zone Type	1105	Alpha for Zone Number 28
0446 Zone 63 & 64 Zone Type 0510 2011 Tone 191 & 192 Zone Type 1137 Alpha for Zone Number 30 0447 Zone 65 & 66 Zone Type 0511 Zone 195 & 196 Zone Type 1137 Alpha for Zone Number 30 0448 Zone 67 & 68 Zone Type 0512 Zone 195 & 196 Zone Type 1153 Alpha for Zone Number 31 0449 Zone 69 & 70 Zone Type 0514 Zone 199 & 200 Zone Type 1185 Alpha for Zone Number 32 0450 Zone 71 & 72 Zone Type 0515 Zone 201 & 202 Zone Type 1201 Alpha for Zone Number 33 0451 Zone 73 & 74 Zone Type 0516 Zone 203 & 204 Zone Type 1217 Alpha for Zone Number 34 0452 Zone 75 & 76 Zone Type 0516 Zone 203 & 204 Zone Type 1217 Alpha for Zone Number 35 0453 Zone 77 & 78 Zone Type 0516 Zone 203 & 204 Zone Type 1217 Alpha for Zone Number 36 0454 Zone 79 & 80 Zone Type 0517 Zone 205 & 206 Zone Type 1233 Alpha for Zone Number 37 0454 Zone 79 & 80 Zone Type 0519 Zone 209 & 210 Zone Type 1249 Alpha for Zone Number 38 0455 Zone 81 & 82 Zone Ty	0445	Zone 61 & 62 Zone Type	0510	Zone 101 & 102 Zone Type	1121	Alpha for Zone Number 20
0447Zone 05 & 66 Zone Type0511Zone 195 & 196 Zone Type1157Alpha for Zone Number 300448Zone 67 & 68 Zone Type0512Zone 195 & 196 Zone Type1153Alpha for Zone Number 310448Zone 69 & 70 Zone Type0513Zone 197 & 198 Zone Type1169Alpha for Zone Number 320449Zone 69 & 70 Zone Type0514Zone 199 & 200 Zone Type1185Alpha for Zone Number 330450Zone 71 & 72 Zone Type0515Zone 201 & 202 Zone Type1201Alpha for Zone Number 340451Zone 73 & 74 Zone Type0516Zone 203 & 204 Zone Type1217Alpha for Zone Number 350452Zone 75 & 76 Zone Type0517Zone 205 & 206 Zone Type1233Alpha for Zone Number 360453Zone 77 & 78 Zone Type0518Zone 207 & 208 Zone Type1249Alpha for Zone Number 370454Zone 79 & 80 Zone Type0519Zone 209 & 210 Zone Type1265Alpha for Zone Number 380455Zone 81 & 82 Zone Type0520Zone 211 & 212 Zone Type1281Alpha for Zone Number 390456Zone 83 & 84 Zone Type0521Zone 213 & 214 Zone Type1297Alpha for Zone Number 400457Zone 87 & 88 Zone Type0523Zone 217 & 218 Zone Type1313Alpha for Zone Number 420458Zone 87 & 88 Zone Type0523Zone 219 & 220 Zone Type1345Alpha for Zone Number 420459Zone 89 & 90 Zone Type0524Zone 219 & 220 Zone Type1345Alpha for Zone Number 43	0446	Zone 63 & 64 Zone Type	0510	Zone 193 & 194 Zone Type	1121	Alpha for Zone Number 30
0447Zone 60 & 00 Zone Type0512Zone 135 & 130 Zone Type1169Alpha for Zone Number 320448Zone 69 & 70 Zone Type0513Zone 197 & 198 Zone Type1169Alpha for Zone Number 320449Zone 69 & 70 Zone Type0514Zone 199 & 200 Zone Type1185Alpha for Zone Number 330450Zone 71 & 72 Zone Type0515Zone 201 & 202 Zone Type1201Alpha for Zone Number 340451Zone 73 & 74 Zone Type0516Zone 203 & 204 Zone Type1217Alpha for Zone Number 350452Zone 75 & 76 Zone Type0517Zone 205 & 206 Zone Type1233Alpha for Zone Number 360453Zone 77 & 78 Zone Type0518Zone 207 & 208 Zone Type1249Alpha for Zone Number 370454Zone 79 & 80 Zone Type0519Zone 209 & 210 Zone Type1265Alpha for Zone Number 370454Zone 81 & 82 Zone Type0520Zone 211 & 212 Zone Type1281Alpha for Zone Number 380455Zone 81 & 82 Zone Type0521Zone 213 & 214 Zone Type1297Alpha for Zone Number 390456Zone 83 & 84 Zone Type0522Zone 215 & 216 Zone Type1313Alpha for Zone Number 400457Zone 87 & 88 Zone Type0523Zone 217 & 218 Zone Type1329Alpha for Zone Number 410458Zone 87 & 88 Zone Type0524Zone 219 & 220 Zone Type1345Alpha for Zone Number 430459Zone 91 & 92 Zone Type0525Zone 218 & 222 Zone Type1361Alpha for Zone Number 44	0440	Zone 65 & 66 Zone Type	0512	Zone 195 & 196 Zone Type	1153	Alpha for Zone Number 31
0449 Zone 69 & 70 Zone Type 0513 Zone 199 & 200 Zone Type 1185 Alpha for Zone Number 32 0449 Zone 69 & 70 Zone Type 0514 Zone 199 & 200 Zone Type 1201 Alpha for Zone Number 33 0450 Zone 71 & 72 Zone Type 0515 Zone 203 & 204 Zone Type 1201 Alpha for Zone Number 34 0451 Zone 73 & 74 Zone Type 0516 Zone 203 & 204 Zone Type 1217 Alpha for Zone Number 35 0452 Zone 75 & 76 Zone Type 0517 Zone 205 & 206 Zone Type 1233 Alpha for Zone Number 36 0453 Zone 77 & 78 Zone Type 0518 Zone 207 & 208 Zone Type 1249 Alpha for Zone Number 37 0454 Zone 79 & 80 Zone Type 0519 Zone 209 & 210 Zone Type 1265 Alpha for Zone Number 38 0455 Zone 81 & 82 Zone Type 0520 Zone 211 & 212 Zone Type 1281 Alpha for Zone Number 39 0456 Zone 83 & 84 Zone Type 0521 Zone 213 & 214 Zone Type 1297 Alpha for Zone Number 40 0457 Zone 87 & 88 Zone Type 0523 Zone 217 & 218 Zone Type 1313 Alpha for Zone Number 42 0458 Zone 87 & 88 Zone Type <td>0447</td> <td>Zone 67 & 68 Zone Type</td> <td>0512</td> <td>Zone 197 & 198 Zone Type</td> <td>1160</td> <td>Alpha for Zone Number 32</td>	0447	Zone 67 & 68 Zone Type	0512	Zone 197 & 198 Zone Type	1160	Alpha for Zone Number 32
0450Zone 71 & 72 Zone Type0514Zone 703 & 201 & 202 Zone Type1201Alpha for Zone Number 340451Zone 73 & 74 Zone Type0515Zone 203 & 204 Zone Type1217Alpha for Zone Number 340452Zone 75 & 76 Zone Type0517Zone 205 & 206 Zone Type1233Alpha for Zone Number 350452Zone 77 & 78 Zone Type0518Zone 207 & 208 Zone Type1249Alpha for Zone Number 360453Zone 79 & 80 Zone Type0519Zone 209 & 210 Zone Type1265Alpha for Zone Number 370454Zone 79 & 80 Zone Type0519Zone 209 & 210 Zone Type1265Alpha for Zone Number 380455Zone 81 & 82 Zone Type0520Zone 211 & 212 Zone Type1281Alpha for Zone Number 390456Zone 83 & 84 Zone Type0521Zone 213 & 214 Zone Type1297Alpha for Zone Number 400457Zone 85 & 86 Zone Type0522Zone 215 & 216 Zone Type1313Alpha for Zone Number 410458Zone 87 & 88 Zone Type0523Zone 217 & 218 Zone Type1329Alpha for Zone Number 420459Zone 91 & 92 Zone Type0524Zone 219 & 220 Zone Type1345Alpha for Zone Number 430460Zone 91 & 92 Zone Type0525Zone 221 & 222 Zone Type1361Alpha for Zone Number 44DSZ400Xi (Au) Paforzone CuideConvrict @ 2007 Paceb Socurity SustemeInc.D(h) F041/035275 01Dage 055	0440	Zone 69 & 70 Zone Type	0514	Zone 199 & 200 Zone Type	1185	Alpha for Zone Number 33
0450Zone 77 & 72 Zone Type0516Zone 203 & 204 Zone Type1217Alpha for Zone Number 350452Zone 75 & 76 Zone Type0517Zone 203 & 204 Zone Type1233Alpha for Zone Number 360453Zone 77 & 78 Zone Type0518Zone 207 & 208 Zone Type1249Alpha for Zone Number 360454Zone 79 & 80 Zone Type0519Zone 209 & 210 Zone Type1265Alpha for Zone Number 370454Zone 79 & 80 Zone Type0520Zone 211 & 212 Zone Type1265Alpha for Zone Number 380455Zone 81 & 82 Zone Type0521Zone 213 & 214 Zone Type1281Alpha for Zone Number 390456Zone 83 & 84 Zone Type0522Zone 215 & 216 Zone Type1297Alpha for Zone Number 400457Zone 85 & 86 Zone Type0523Zone 217 & 218 Zone Type1313Alpha for Zone Number 410458Zone 87 & 88 Zone Type0524Zone 219 & 220 Zone Type1329Alpha for Zone Number 420459Zone 91 & 92 Zone Type0525Zone 218 & 222 Zone Type1361Alpha for Zone Number 430460Zone 91 & 92 Zone Type0525Zone 221 & 222 Zone Type1361Alpha for Zone Number 44	0450	Zone 71 & 72 Zone Type	0515	Zone 201 & 202 Zone Type	1201	Alpha for Zone Number 34
0451Zone 75 & 76 Zone Type0517Zone 205 & 206 Zoe Type1233Alpha for Zone Number 360452Zone 75 & 76 Zone Type0517Zone 205 & 206 Zone Type1233Alpha for Zone Number 360453Zone 77 & 78 Zone Type0518Zone 207 & 208 Zone Type1249Alpha for Zone Number 370454Zone 79 & 80 Zone Type0519Zone 209 & 210 Zone Type1265Alpha for Zone Number 380455Zone 81 & 82 Zone Type0520Zone 211 & 212 Zone Type1281Alpha for Zone Number 390456Zone 83 & 84 Zone Type0521Zone 213 & 214 Zone Type1297Alpha for Zone Number 400457Zone 85 & 86 Zone Type0522Zone 215 & 216 Zone Type1313Alpha for Zone Number 410458Zone 87 & 88 Zone Type0523Zone 217 & 218 Zone Type1329Alpha for Zone Number 420459Zone 89 & 90 Zone Type0524Zone 219 & 220 Zone Type1345Alpha for Zone Number 430460Zone 91 & 92 Zone Type0525Zone 221 & 222 Zone Type1361Alpha for Zone Number 44	0451	Zone 73 & 74 Zone Type	0516	Zone 203 & 204 Zone Type	1217	Alpha for Zone Number 35
0452Zone 77 & 78 Zone Type0518Zone 207 & 208 Zone Type1249Alpha for Zone Number 370454Zone 79 & 80 Zone Type0519Zone 209 & 210 Zone Type1265Alpha for Zone Number 380455Zone 81 & 82 Zone Type0520Zone 211 & 212 Zone Type1281Alpha for Zone Number 390456Zone 83 & 84 Zone Type0521Zone 213 & 214 Zone Type1297Alpha for Zone Number 390457Zone 85 & 86 Zone Type0522Zone 215 & 216 Zone Type1313Alpha for Zone Number 400458Zone 87 & 88 Zone Type0523Zone 217 & 218 Zone Type1329Alpha for Zone Number 420459Zone 91 & 92 Zone Type0524Zone 219 & 220 Zone Type1345Alpha for Zone Number 430460Zone 91 & 92 Zone Type0525Zone 221 & 222 Zone Type1361Alpha for Zone Number 44DSZ400Xi (At) Deference CuideConvirient @ 2007 Decem Security SustemeDecem TypeD252 Cone 211 & 222 Zone Type2017 Decem Security Susteme	0452	Zone 75 & 76 Zone Type	0517	Zone 205 & 206 Zone Type	1233	Alpha for Zone Number 36
0456Zone 79 & 80 Zone Type0519Zone 209 & 210 Zone Type1265Alpha for Zone Number 380455Zone 81 & 82 Zone Type0520Zone 211 & 212 Zone Type1281Alpha for Zone Number 390456Zone 83 & 84 Zone Type0521Zone 213 & 214 Zone Type1297Alpha for Zone Number 390457Zone 85 & 86 Zone Type0522Zone 215 & 216 Zone Type1313Alpha for Zone Number 400458Zone 87 & 88 Zone Type0523Zone 217 & 218 Zone Type1329Alpha for Zone Number 410458Zone 89 & 90 Zone Type0524Zone 219 & 220 Zone Type1329Alpha for Zone Number 420460Zone 91 & 92 Zone Type0525Zone 221 & 222 Zone Type1361Alpha for Zone Number 44DSZ400Xi (At) Deference CuideConviriet © 2007 Beech Security SustaineDeference CuideDeference 05	0453	Zone 77 & 78 Zone Type	0518	Zone 207 & 208 Zone Type	1249	Alpha for Zone Number 37
0457Zone 81 & 82 Zone Type0520Zone 211 & 212 Zone Type1281Alpha for Zone Number 390456Zone 83 & 84 Zone Type0521Zone 213 & 214 Zone Type1297Alpha for Zone Number 400457Zone 85 & 86 Zone Type0522Zone 215 & 216 Zone Type1313Alpha for Zone Number 400458Zone 87 & 88 Zone Type0523Zone 217 & 218 Zone Type1329Alpha for Zone Number 410458Zone 89 & 90 Zone Type0524Zone 219 & 220 Zone Type1329Alpha for Zone Number 420459Zone 91 & 92 Zone Type0525Zone 221 & 222 Zone Type1361Alpha for Zone Number 430460Zone 91 & 92 Zone Type0525Zone 221 & 222 Zone Type1361Alpha for Zone Number 44DSZ400XiAlpha for Zone Number 44Convrint © 2007 Reach Security SystemsDefense Security SystemsDefense Security Systems	0454	Zone 79 & 80 Zone Type	0519	Zone 209 & 210 Zone Type	1265	Alpha for Zone Number 38
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