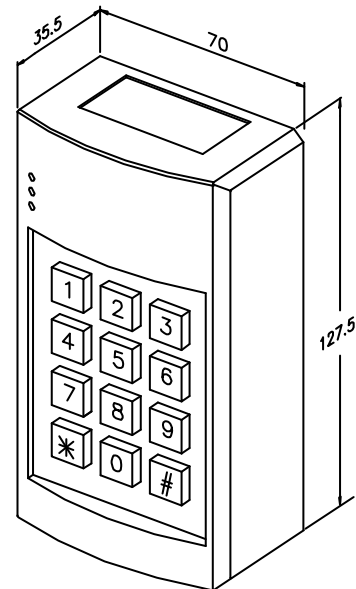


## DG-30 Digital Keypad / Proximity Entry system Operation User's Manual

### 1. Product Characteristic:

- ◆ Allows up to 150 Proximity cards / tokens or PIN codes
- ◆ Tamper Switch Included
- ◆ Door Reed Switch Input for Anti-Trailing
- ◆ Fully Programmable via keypad and master code
- ◆ Extendable from keypad only to proximity controller
- ◆ Supports 26 or 34-bit Wiegand auxiliary reader
- ◆ Logical memory to prevent duplication
- ◆ Non-Volatile Memory
- ◆ Invalid PIN Lock-out



### 2. Specifications:

- ◆ Operating Voltage: 12 Vdc
- ◆ Current Draw: 60mA Max @12VDC
- ◆ Input: request-to-exit, time out reed switch contact, auxiliary reader
- ◆ Relays Electric Current: 2A MAX @30Vdc ; 0.4A @ 120Vac
- ◆ Memory Volume: 150 PIN codes or 100 Proximity cards/tokens and 50 PIN codes
- ◆ Format: 26 or 34-bit Wiegand hexadecimal.
- ◆ Relay 1 is controlled by 001~100 user slots ( Cards or PIN codes )
- ◆ Relay 2 is controlled by 101~150 user slots ( PIN codes )
- ◆ PIN codes: 5 digit codes only
- ◆ Case Material: ABS ( UL94V0 )
- ◆ Operating Temperature: -20~+70°C
- ◆ Ambient Humidity: 5~95% relative humidity non-condensing
- ◆ Visual Signals:
  - Red: Power on
  - Green: Relay activated
  - Tri-color LED:
    - ◆ Yellow: Program Mode
    - ◆ Red: The slot is registered · Lock-out
    - ◆ Green: This slot may register the card or PIN codes.
- ◆ Factory Master Code: 12345
- ◆ Invalid PIN Lock-out: The system will shut down for 60 seconds while 32 codes of incorrectly Master Codes enrolled or PIN codes attempted.
- ◆ EPROM: Non-volatile memory, System will retain all programs and codes after a total loss of power.
- ◆ Output: Dual relay, N.O./N.C./Com. Output (free voltage contact) · Tamper switch
- ◆ Relay Activation Time: ( \* 10 · \* 20 )
  - Strike Time: 1~99 seconds ( adjustable )
  - Strike mode: Access Timer or Latch
- ◆ Color: Dark gray/ Beige White

### 3. The indicator signal chart:

Sound and LED indicator:

LED signal	Red LED	Power on
	Green LED	Relay activated
	Tri-color-Yellow	Entering the Program mode
	Tri-color-Red	Slot position is registered
	Tri-color-Green	Slot position is ready to register
Sound signal	1 Beep	Slot position is ready to register · Effective card ( PIN codes ) · Exit from the Program mode
	2 Beeps	Entering the Program mode
	3 Beeps	Slot position is registered · Data computing error · other operation mistakes · duplicate card
	5 Beeps	Master Code reset to Factory ( 12345 )

Factory Parameter list :

Format	26 bits
Card register	None
Master Codes	12345 (5 digits)
Strike Time	1 seconds
Pressed key delay time (Time Out)	5 seconds
Program mode delay time	60 seconds
Invalid PIN Lock-out time	60 seconds

### 4. Operation Instruction:

#### ◆ Enter Program Mode:

1. Compose twice the master code (Factory master is 「 12345 」 )  
→ 2 beeps and the Yellow LED will light up  
→ you are now in the "programming mode".
2. **Note:** After 60 seconds if you have not entered any codes or data, the system will automatically exit from the programming mode. After 6 wrong attempts at the master code the lockout facility will operate.

#### ◆ Exiting from the program mode:

1. Press 「 # 」 to exit from the programming mode.
2. **Note:** After 60 seconds if you have not entered any codes or data, the system will automatically exit from the programming mode. After 6 wrong attempts at the master code the lockout facility will operate.

#### ◆ Selecting The User Format

Enter the Programming mode, Press 「 \* 30 」

- ◆ Followed By 「 01 」 : This will set the system to be used as :Wiegand 26-bit ; Slots 001~100 for cards/tokens and slots 01~150 for PIN codes

OR

- ◆ Followed By 「 02 」 : This will set the system to be used as : Wiegand 34-bit, Slots 001~100 for cards/tokens and slots 01~150 for PIN codes

OR

- ◆ Followed By 「03」 : This will set the system to be used as : Slots 001~150 for PIN codes only

**Note:** When system format has the change, there's a possibility the card stored would be invalid. Please reset the system and input all cards /tokens.

- ◆ **Add card and deletion**

Enter the Programming mode, Enter the slot position code 「001~100」

- A. **Green light comes on:** This slot position is ready to register the card
  1. Present card in front of the reader→Yellow LED blinks (beep) → enrolled completed → (repeat)
  2. Present card in front of the reader→ (3 audible beeps) another card has already been input (duplicate card).
- B. **Red light comes on:** This slot already has a code registered
  1. Press 「\* \*」 (deletion) → Green light → Enter the slot position code again → Present the card in front of the reader → ( same as Step "A" )
  2. Enter another slot card position

- ◆ **Add PIN codes and deletion**

Enter the Programming mode, Enter the slot position code 「101~150」

- A. **Green light comes on:** This slot position code may register the PIN codes  
Input 5 digit PIN codes →Yellow LED blinks (beep) → enrolled → (repeat)
- B. **Red light comes on:** This slot position code is registered
  1. Press 「\* \*」 (deletion) → Green light → Press the slot position code again → Input 5 digit PIN codes → ( same as Step "A" )
  2. Enter another slot card position

**Note 1:** The codes"12345" or master code are not be used for PIN code.

**Note 2:** PIN codes operate open door : 「??????????\* \* \* \* #」  
「???....」 random codes, 「\* \* \* \*」 5 digit PIN codes, 「#」 Enter

- ◆ **To Program Relocking Timer**

Enter the Programming mode,

- A. Relay 1 : Press 「\* 10」 Followed by the number of seconds the relay should open→ 「05」 =5 seconds (01 ~99 = seconds) → (beep) →enrolled → Press 「#」 to exit from the programming mode, or program other operating.
- B. Enter 「00」 Sets the relay to latching mode. (Correct code entered opens the relay, and the relay stays open until the correct code is entered again).
- C. Relay 2 : Press 「\* 20」 Followed by the number of seconds the relay should open) → 「05」 =5 seconds (01 ~99 = seconds). → (beep) →enrolled → Press 「#」 to exit from the programming mode, or program other operating.
- D. Enter 「00」 Sets the relay to latching mode. (Correct code entered opens the relay, and the relay stays open until the correct code is entered again).

- ◆ **Changing the Master codes:**

Enter the Programming mode, Enter 「\* 00」 Followed by the new 5 digit master code→ (beep) →enrolled→Enter 「#」 to exit from the programming mode, or program other operating.

◆ **Reset to Factory**

- Master Code reset to Factory 「12345」

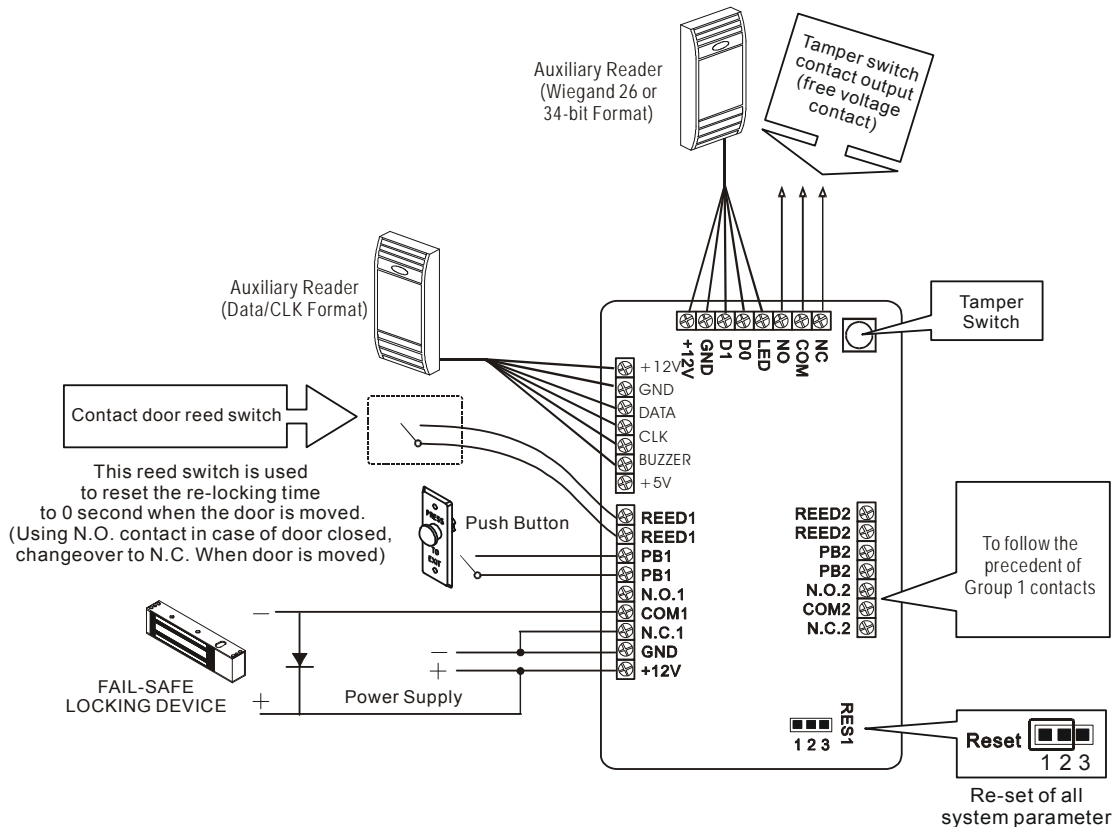
Insert the jumper RES1 → [1-2] position → 5 audible beeps → Reset successful → Return  
Insert the jumper to 2-3 position

- Remove all stored information

Insert the jumper RES1 → [1-2] position → 5 audible beeps → Master Code reset to  
Factory 「12345」 → after 5 seconds → 5 audible beeps → Remove all stored  
information → Return Insert the jumper to 2-3 position.

**Note:** If you only wish to reset the Master Code to the Factory default, remove the  
jumper after exactly 5 audible beeps, otherwise all cards / codes will be deleted.

5. Wiring diagram:



**Note:**

- ◆ DG-30 controller and auxiliary reader distance must not exceed 20 meters; the data will not transmit beyond this. The suggested wire gauge is #22~26 AWG.
- ◆ Using a Linear supply power recommended, to prevent power reduction at the card reader.
- ◆ The varistor or diode must be connected across the lock terminal (electromagnet...) operated by the device. The varistor controls the overload produced by the strike coil (EMP).
- ◆ Egresses switch should be N.O. type.

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