2. Vacuum sensing chamber before using clean, compressed air to loosen and blow out any remaining debris.

#### [8.0] Board Replacement

#### [8.1] Detector Board Replacement

- 1. Remove the two detector board mounting screws.
- 2. Pull gently on the board to remove it.
- 3. To replace the board, align the board mounting fea- 5. Secure board with the two mounting screws. tures, holes, and the interconnect terminals. Push the 6. Re-connect wiring to terminal block. board into place.
- 4. Secure board with the two mounting screws.

#### [9] Model DH100ACDC Air Duct Smoke Detector Specifications

T	peratu	
Tem	neram	TH

iciliperature.				
DH100ACDCP	32° to 131° F		0° to 55° C	
DH100ACDCI	32° to 120° F		0° to 49° C	
Humidity:	10% to 93% R	.H. noncondensing		
Air Velocity:	500 to 4000 ft.	/min.	2.5 to 20.3 m/sec.	
Dimensions:	14.38" L x 5.5" W x 2.75" D		37cm L x 14cm W x 7cm D	
Weight:	3.75 pounds		1.7 kg	
Electrical Specifications				
Power supply voltage:	20-29 VDC	24 VAC 50-60-Hz	120 VAC 50-60 Hz	220/240 VAC 50-60 Hz
Input capacitance:	270 $\mu$ F max.	270 <i>µ</i> F max.	N/A	N/A
Reset voltage:	3.0 VDC min.	2.0 VAC min.	10 VAC min.	20 VAC min.
Reset time (with RTS451):	.03 to 0.3 sec.	.03 to 0.3 sec.	.03 to 0.3 sec.	.03 to 0.3 sec.
Reset time (by power down):	0.6 sec. max.	0.6 sec. max.	0.6 sec. max.	0.6 sec. max.
Power up time:	34 sec. max.	34 sec. max.	34 sec. max.	34 sec. max.
Alarm response time:	2 to 17 sec.	2 to 17 sec.	2 to 17 sec.	2 to 17 sec.
Sensitivity Test:	See detector label	See detector label	See detector label	See detector label

Power Supply Voltage	20 - 29 VDC	24 VAC 50 - 60 Hz	120 VAC 50 - 60 Hz	220/240 VAC 50 - 60 Hz
CURRENT REQUIREMENTS (USING NO ACCESSORIES)				
Max. standby current	15 mA	35 mA RMS	25 mA RMS*	15 mA RMS*
Max. alarm current	70 mA	125 mA RMS	35 mA RMS*	25 mA RMS*
CONTACT RATINGS				
Alarm initiation contacts (SPST)	2.0A @ 30 VDC (resistive)	2.0A @ 30 VDC (resistive)		LOADS AT 24 VDC

Alarm auxiliary contacts (DPDT)	10A @ 30 VDC
	10A @ 250 VAC
	vitch 100 mA minimum at 5VDC. Alarm auxiliary contacts shall not be control panels. Use the alarm initiation contact for this purpose.
Trouble contacts (SPDT)	2.0A @ 30 VDC (resistive)

ACCESSORY CURREI	NT LOADS AT	24 VDC
DEVICE	STANDBY	ALARM
APA451	12.5mA Max.	30mA Max
PA400	0mA	15mA Max
RA400Z	0mA	10mA Max
RTS451/RTS451KEY	12mA	7.5mA Ma

\* NOTE: When a unit is powered at the 120VAC or 220/240VAC input, any combination of accessories may be used such that the given accessory loads are: 60 mA or less in the standby state. 110 mA or less in the alarm state

#### **Three-Year Limited Warrantv**

System Sensor warrants its enclosed air duct smoke detector to be free from defects in materials and workmanship under normal use and service for a period of three years from date of manufacture. System Sensor makes no other express warranty for this air duct smoke detector. No agent, representative, dealer, or employee of the Company has the authority to increase or alter the obligations or limitations of this Warranty. The Company's obligation of this Warranty shall be limited to the repair or replacement of any part of the air duct smoke detector which is found to be defective in materials or workmanship under normal use and service during the three year period commencing with the date of manufacture. After phoning System Sensor's toll free number 800-SENSOR2 (736-7672) for a Return Authorization number, send defective units postage prepaid to:

System Sensor, Repair Department, RA #\_\_\_\_ \_, 3825 Ohio Avenue, St. Charles, IL 60174. Please include a note describing the malfunction and suspected cause of failure. The Company shall not be obligated to repair or replace units which are found to be defective because of damage, unreasonable use, modifications, or alterations occurring after the date of manufacture. In no case shall the Company be liable for any consequential or incidental damages for breach of this or any other Warranty, expressed or implied whatsoever, even if the loss or damage is caused by the Company's negligence or fault. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

- 1. Disconnect wiring from the terminal block.
- 2. Remove the two power board mounting screws.
- 3. Pull gently on the board to remove it.
- 4. To replace the board, align the board mounting features, holes, and the interconnect terminals. Push the board into place.

# Innovair DH100ACDC Air Duct Smoke Detector

#### **Before Installing**

Please thoroughly read the System Sensor Guide for Pre-Use of Smoke Detectors in Duct Applications (I56-473), w provides detailed information on detector spacing, p ment, zoning, wiring, and special applications. Copies of manual are available from System Sensor. NFPA Standard and 90A should also be referenced for detailed informati

**NOTICE:** This manual should be left with the owner/ of this equipment.

**IMPORTANT:** This detector must be tested and mainta regularly following NFPA 72 requirements. The dete should be cleaned at least once a year.

#### **Table of Contents**

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- [1] General Description
- [2] Limitations of Duct Smoke Detectors
- [3] Exploded View of Duct Smoke Detector Component
- [4] Contents of the Duct Smoke Detector Kit
- [5] Installation Sequence
- [6] Duct Smoke Detector Maintenance and Test Procedure
- [7] Detector Cleaning Procedures
- [8] Board Replacement
- [9] Specifications
- Warranty

#### [1] General Description

An HVAC system supplies conditioned air to virtually evaluated and the system supplies and the system and the s area of a building. Smoke introduced into this air duct tem will be distributed to the entire building. Smoke de tors designed for use in air duct systems are used to see the presence of smoke in the duct.

Model DH100ACDC Air Duct Smoke Detectors are supp as an ionization model or photoelectronic model. T two smoke detection methods are combined with an cient housing design that samples air passing throug duct and allows detection of a developing hazardous co tion. When sufficient smoke is sensed, an alarm sign initiated at the fire control panel monitoring the deter and appropriate action can be taken to shut off fans, b ers, change over air handling systems, etc. These act can facilitate the management of toxic smoke and fire g throughout the areas served by the duct system.

DH100ACDC detectors are designed to operate on 24 V VAC, 120 VAC, or 240 VAC. Alarm and supervisory relay D100-68-00

I56-1147-07

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3825 Ohio Avenue, St. Charles, Illinois 60174 1-800-SENSOR2, FAX: 630-377-6495

oper	tacts are available for control panel interface (alarm initia- tion), HVAC control, and other auxiliary functions. Auxiliary
hich lace- this	relays are also provided for fan shut down or signaling of up to 9 other detectors in the loop for multiple fan shut down. These detectors are not designed for 2 wire applications
ls 72	These detectors are not designed for 2-wire applications.
on.	For testing, the alarm can be enabled by a magnet activated test switch or by the optional remote test station.
user	The duct smoke detector latches into alarm state when an alarm occurs. A green LED flashes to indicate power, a
ined ector	red LED signals local alarm indication, and optional accessories offer a variety of annunciation capabilities.
	The DH100ACDC can be reset by a momentary power in-
age	terruption, the reset button on the front cover, the control panel, or remote reset accessory.
1	[2] Limitations Of Duct Smoke Detectors
1	AWARNING
s 2 2	The National Fire Protection Association has established that DUCT DETECTORS MUST NOT BE USED AS A SUB-
2	STITUTE FOR OPEN AREA DETECTOR PROTECTION as a
es 5 7	means of providing life safety. Nor are they a substitute for
8	early warning in a building's regular fire detection system.
8 8	System Sensor supports this position and strongly recommends that the user read NFPA Standards 90A, 72, and 101. The DH100ACDC Air Duct Smoke Detectors are listed per UL 268A.
very	
sys- etec- ense	This device will not operate without electrical power. Fire situations may cause an interruption of power. The system safeguards should be discussed with your local fire protection specialist.
olied hese effi-	<b>A</b> WARNING This device will not sense smoke unless the ventilation system is operating and the cover is installed.
gh a	AWARNING
ondi- al is ctor, low- ions ases	For this detector to function properly, it MUST be installed according to the instructions in this manual. Furthermore, the detector MUST be protected from the elements and op- erated within ALL electrical and environmental specifica- tions listed in this manual. Failure to comply with these requirements may prevent the detector from activating when smoke is present in the air duct.
DC/ con-	

#### [3] Figure 1: Exploded View Of Duct Smoke Detector Components

## CONDUIT HOLES DETECTOR TELESCOPING TUBE TERMINAL STRIP POWER BOARD TELESCOPING TUBE DETECTOR BOARD $\mathcal{V}$ SAMPLING TUBE FILTERS 1000 DETECTOR COVER COVER MOUNTING SCREWS

Supplemental Tube Holes	Duct Width
5	12"-14"
6	14"-16"
7	16"-18"

**Tube Installation Chart:** 

[4] Contents Of The Duct Smoke Detector Kit

- 1. Complete housing base and cover assembly
- 2. Two #10 machine screws for mounting
- 3. Two sampling tube filters
- 4. One test magnet
- 5. Drilling template
- 6. Two foam gaskets
- 7. Four #6-self tapping mounting screws for the metal sampling tube and optional exhaust tube extension
- 8. Two jack nuts
- 9. One inlet tube end plug
- 10. One telescoping sampling tube
- 11. One #8 self-tapping screw for the telescoping sampling tube
- **NOTE:** For ducts over  $1^{1/2}$  feet, longer inlet sampling tubes must be ordered to complete the installation. They must be the correct length for the width of the duct where they will be installed. See Table 1 on page 3 to determine the inlet tube required for different duct widths.

#### [5] Installation Sequence

#### [5.1] Verify Duct Air Flow Direction And Velocity

Model DH100ACDC detectors are designed to be used in air handling systems having air velocities of 500 to 4000 feet per minute. Be sure to check engineering specifications to ensure that the air velocity in the duct falls within these parameters. If necessary, use a velocity meter to check the air velocity in the duct.

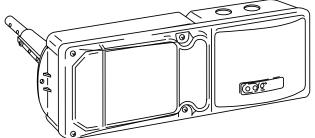
#### [5.2] Drill The Mounting Holes

Remove the paper backing from the mounting template supplied. Affix the template to the duct at the desired mounting location. Make sure the template lies flat and smooth on the duct. Center punch holes A and B. Drill the holes as indicated on the template. Insert the two jack nut receptacles. Drive a #10 machine screw into jacket to flare the retainer, then back out the screw to use for detector mounting.

#### [5.2.1] Sampling Tube Installation for Ducts Less Than $1^{1/2}$ Feet Wide (see Figure 2)

- 1. Remove the front cover.
- 2. Use the tube installation chart above to determine the set screw setting.
- 3. Slide the sampling tube into the housing bushing.
- 4. Align the holes in the bushing with the holes in the sampling tube. Make sure the number of exposed holes on the supplemental tube matches the number as determined in step 2. Secure with the #8 self-tapping screw into the bottom of the permanent tube.
- **NOTE:** For ducts greater than  $1^{1}/_{2}$  feet in width, refer to sections [5.4.1] and [5.4.2].

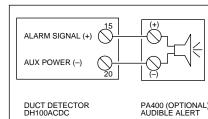
#### Figure 2. Sampling tube connected to duct smoke detector:



#### [5.3] Secure The Detector Housing To The Duct

Slide the foam gaskets over the tube bushings as shown in Figure 3. Use the two machine screws to screw the detector

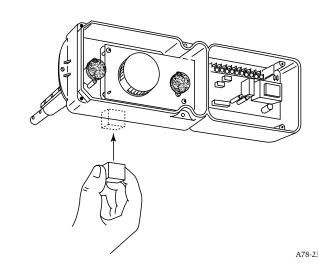
#### Figure 10. Wiring diagrams for optional accessories (see page 6 for APA451 wiring diagram):



ACCESSORY CURRE	NT LOADS AT	24 VDC
DEVICE	STANDBY	ALARM
APA451	12.5mA Max.	30mA Max.
PA400	0mA	15mA Max.
RA400Z	0mA	10mA Max.
RTS451/RTS451KEY	12mA Max.	7.5mA Max.
When a unit is powered at the 120VAC or 220/200 any combination of accessories may be used such accessory loads are:		

or less in the standby 110mA or less in the alarm state

#### Figure 11. Testing detector alarm:



[6.2.2.2] RTS451/RTS451KEY Remote Test Station The RTS451/RTS451KEY Remote Test Station facilitates test of the alarm capability of the duct smoke detector as indicated in the RTS451/RTS451KEY manual. The DH100ACDC duct smoke detector can be reset by the RTS451/RTS451KEY. If a system control panel is used, the panel itself may also require testing.

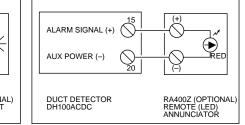
To install the RTS451/RTS451KEY, connect the device as shown in Figure 9; wire runs must be limited to 25 ohms or less per interconnecting wire.

#### [6.2.3] Sensitivity Tests [6.2.3.1] MOD400 or MOD400R Test

After verification of alarm capability, use the MOD400R test module with a voltmeter to check detector sensitivity as indicated in the test module's manual. The housing cover must be removed to perform this test.

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If test module readings indicate that the detector head is outside of the acceptable range that is printed on the label of the detector, the detector chamber requires cleaning per Section [7] of this manual.

### [7] Detector Cleaning Procedures

Notify the proper authorities that the smoke detector system is undergoing maintenance, and that the system will temporarily be out of service. Disable the zone or system undergoing maintenance to prevent unwanted alarms and possible dispatch of the fire department.

### [7.1] Air Filters

- 1. Turn off power to the system.
- 2. Remove and inspect sampling tube filters.
- A78-2325-00 3. If filters are heavily coated with dirt, replace them with new filters. If they are not heavily coated, use a vacuum cleaner or compressed air nozzle to remove dust, then reinstall the filters.

### [7.2] Photo Detector Boards

- 1. Remove the screen by gently grasping on each side and pulling straight off.
- 2. Lift the photo chamber in the same fashion. Vacuum the screen and cover. Use clean, compressed air to loosen and blow out any remaining debris. Replacement screens (S08-39-01) are available.
- 3. Vacuum photo chamber, then use clean compressed air to blow area clean.
- 4. Replace the chamber by pressing it onto the base. Press the screen into place. It should fit tightly on the chamber.

### [7.3] Ion Detector Boards

1. Brush or vacuum inside area of cover. Chamber may then be blown out using clean, compressed air.

#### Figure 7. System wiring diagram for 4-wire duct smoke detectors (detectors powered from initiating circuit):

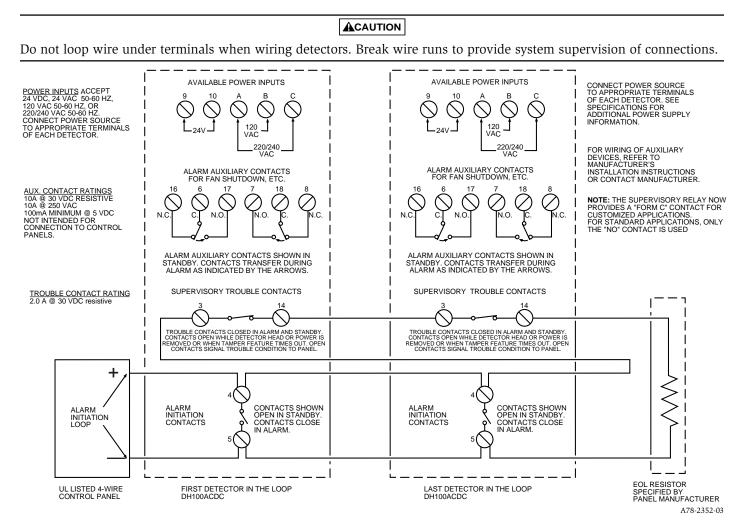
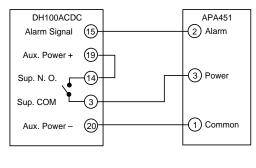
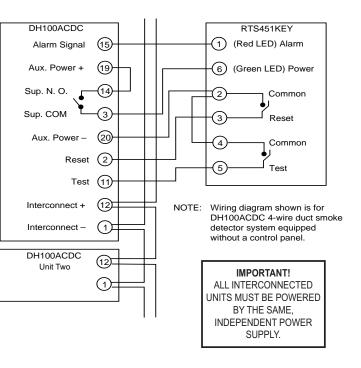


Figure 8. Wiring diagram for DH100ACDC to APA451:



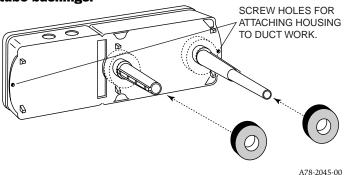
NOTE: Wiring diagram shown is for DH100ACDC 4-wire duct smoke detector system equipped without a control panel

#### Figure 9. Wiring diagram for DH100ACDC to **RTS451KEY** and interconnect feature:



housing to the duct. CAUTION: Do not overtighten the screws.

#### Figure 3. Installation of foam gaskets over sampling tube bushings:



#### [5.4] Sampling Tube Installation for Ducts Greater Than $1^{1}/_{2}$ Feet Wide

The sampling tube is identified by a series of air inlet holes on the tube. A telescoping tube is included for ducts up to 18" in width. All other lengths must be purchased separately. Order the correct length, as specified in Table 1, for width of the duct where it will be installed. The exhaust tube is molded onto the base of the duct housing, and the A2440-00 Exhaust Tube Extension is available as an accessory in those cases where the molded exhaust port does not extend at least 2 inches into the duct.

The inlet tube is always installed with the air inlet holes facing into the air flow. To assist proper installation, the tube's mounting flange is marked with arrows. Make sure the inlet tube is mounted so that the arrows point into the air flow (see Figure 4). Figure 5 shows the various combinations of tube mounting configurations with respect to air flow. Mounting the detector housing in a vertical orientation is acceptable, provided that the air flows directly into the sampling tube holes as indicated in Figure 4.

#### Table 1. Inlet tubes required for different duct widths:

Inlet Tube Required
ST-1.5
ST-3
ST-5
ST-10

#### [5.4.1] Installation For Ducts Greater Than 1<sup>1</sup>/<sub>2</sub> Feet **But Less Than 8 Feet Wide**

1. If the tube is longer than the width of the air duct, drill a  $\frac{3}{4}$  hole in the duct opposite the hole already cut for the inlet tube. Make sure the hole is 1" to 2" below the inlet hole on the opposite side of the duct to allow moisture drainage away from the detector. If the tube is shorter than the width of the air duct, install the end plug into the inlet tube as shown in Figure 4. Sampling tubes over 3 ft. long

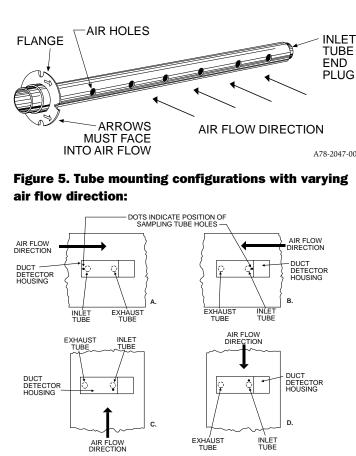
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must be supported at the end opposite the duct detector.

- 2. Slide the tube into the housing bushing that meets the air flow first. Position the tube so that the arrows point into the air flow.
- 3. Secure the tube flange to the housing bushing with two #6 self-tapping screws.
- 4. For tubes longer than the width of the air duct, the tube should extend out of the opposite side of the duct. If there are more than 2 holes in the section of the tube extending out of the duct, select a different length using Table 1. Otherwise, trim the end of the tube protruding through the duct so that 1" to 2" of the tube extend outside the duct. Plug this end with the end plug and tape closed any holes in the protruding section of the tube. Be sure to seal the duct where the tube protrudes.

### Figure 4. Air duct detector inlet sampling tube:



NOTE: Orientations C and D apply only to metal sampling tubes

### 

In no case should more than 2 air inlet holes be cut off the tube. There must be a minimum of 10 holes in the tube exposed to the air stream.

### [5.4.2] Installation For Ducts More Than 8 Feet Wide

**NOTE:** To install inlet tubes in ducts more than 8 feet wide,

3

work must be performed inside the air duct. Sampling of air in ducts wider than 8 feet is accomplished by using the ST-10 inlet sampling tube. If the tube is shorter than the width of the air duct, install the end plug into the inlet tube as shown in Figure 4 and support the end opposite the duct smoke detector.

#### Install the inlet tube as follows:

- 1. Drill a  $^{3}/_{4}$ -inch hole in the duct directly opposite the hole already drilled for the inlet tube. Make sure the hole is 1 to 2" below the inlet hole on the opposite side of the duct to allow for moisture drainage.
- 2. Slide the inlet tube with the flange into the housing bushing that meets the air flow first. Position the tube so that the arrows point into the air flow. Secure the tube flange to the housing bushing with two #6 self-tapping screws
- 3. From inside the duct, couple the other sections of the inlet tube to the section already installed using the 1/2-inch conduit fittings supplied. Make sure that the holes on both of the air inlet tubes are lined up and facing into the air flow.
- 4. Trim the end of the tube protruding through the duct so that 1 to 2" of the tube extend outside the duct. Plug this end with the end plug and tape closed any holes in the protruding section of the tube. Be sure to seal the duct when the tube protrudes.
- **NOTE:** An alternate method to using the ST-10 is to use two ST-5 inlet tubes. Remove the flange from one of the tubes and install as described above. After the installation, use electrical tape to close off some of the sampling holes so that there are a total of 10 to 12 holes spaced as evenly as possible across the width of the duct.
- NOTE: Air currents inside the duct may cause excessive vibration, especially when the longer sampling tubes are used. In these cases a 3 inch floor flange (available at most plumbing supply stores) may be used to fasten the sampling tube to the other side of the duct. When using the flange/connector mounting technique, drill a 1-inch to  $1^{1}/_{4}$ -inch hole where the flange will be used.

#### [5.4.3] Modifications of Inlet Sampling Tubes

There may be applications where duct widths are not what is specified for the installation. In such cases, it is permissible to modify an inlet sampling tube that is longer than necessary to span the duct width.

Use a 0.193-inch diameter (#11) drill and add the appropriate number of holes so that the total number of holes exposed to the air flow in the duct is 10 to 12. Space the additional holes

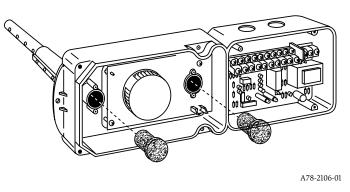
as evenly as possible over the length of the tube.

**NOTE:** This procedure should only be used as a temporary fix. It is not intended as a permanent substitute for ordering the correct length tubes.

#### [5.5] Install The Filters

To install the sampling tube filters, simply push the filters into the sampling and exhaust tube holes, as shown in Figure 6. If a metal sampling tube is used, install the filters over the tube ends.

#### Figure 6. Sampling tube filter installation:



Filters require periodic cleaning or replacement, depending on the amount of dust and dirt accumulated. Visually inspect the filters at least quarterly; inspect them more often if the dust accumulation warrants it. See Section [6] for more information. Replacement filters can be ordered from System Sensor, 3825 Ohio Ave., St. Charles, IL 60174. (Exhaust tube/intake tube filter P/N F36-09-00)

#### [5.6] Field Wiring **Wiring Installation Guidelines**

All wiring must be installed in compliance with the National Electrical Code and the local codes having jurisdiction. Proper wire gauges should be used. The conductors used to connect smoke detectors to control panels and accessory devices should be color-coded to prevent wiring mistakes. Improper connections can prevent a system from responding properly in the event of a fire.

For signal wiring, (the wiring between interconnected detectors or from detectors to auxiliary devices), it is usually recommended that single conductor wire be no smaller than 18 gauge. The duct smoke detector terminals accommodate wire sizes up to 12 gauge. The last foot of conduit should be flexible conduit (available in electrical supply houses), which facilitates easier installation and puts less strain on the conduit holes in the housing. Solid conduit connections may be used if desired.

Smoke detectors and alarm system control panels have haust and inlet tube holes to prevent ducted air from carryspecifications for allowable loop resistance. Consult the ing smoke away from the detector head, then blow smoke control panel manufacturer's specifications for the total such as cigarette, cotton wick, or punk directly at the head loop resistance allowed for the particular model control to cause an alarm. REMEMBER TO REMOVE THE PLUGS panel being used before wiring the detector loop. AFTER THIS TEST, OR THE DETECTOR WILL NOT FUNC-TION PROPERLY.

#### Wiring Instructions

The DH100ACDC detectors are designed for easy wiring. [6.1.3] Filter Replacement The filters do not substantially affect smoke performance The housing provides a terminal strip with clamping plates. Wiring connections are made by stripping about even when up to 90% of the filter is clogged. Quarterly vi-<sup>3</sup>/s-inch of insulation from the end of the wire, sliding sual inspection usually suffices to determine whether the the bare end under the plate, and tightening the clampfilters should be replaced because only a high percentage of contamination affects performance. If further testing is reing plate screw. quired, compare differential pressure readings with and [5.7] Perform Detector Check without the filters installed. If the difference exceeds 10% 1. Perform STANDBY AND TROUBLE TEST per Section replace the filters. In no case should the pressure differential fall below 0.03 inches of water. [6.2.1].

- 2. Perform MAGNET TEST per Section [6.2.2.1]. The RTS451 test of Section [6.2.2.2] may substitute for this requirement.
- 3. Perform AIR FLOW TEST per Section [6.1.1].
- 4. Perform SMOKE RESPONSE TEST per Section [6.1.2].
- 5. Perform SENSITIVITY TEST per Section [6.2.3].

#### [5.8] Install The Cover

Install the cover using the four screws that are captured in Trouble the housing cover. Be certain filters are installed as specified in Section [5.5]. Make sure that the cover fits into the base groove and that all gaskets are in their proper positions. Tighten the four screws.

#### [6] Duct Smoke Detector Maintenance And Test **Procedures**

Test and maintain duct detectors as recommended in NFPA 72. The tests contained in this manual were devised to assist maintenance personnel in verification of proper detector operation.

Before conducting these tests, notify the proper authorities that the smoke detection system will be temporarily out of service. Disable the zone or system under test to prevent unwanted alarms.

#### [6.1] Smoke Entry Tests [6.1.1] Air Flow

To verify sufficient sampling of ducted air, use a manometer to measure the differential pressure created from air flow across the sampling tubes. The pressure should measure no less than 0.03 inches of water and no greater than 1.4 inches of water. The air handler must be operating for this test.

#### [6.1.2] Smoke Response

To determine if smoke is capable of entering the sensing chamber, visually identify any obstructions. Plug the ex-

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#### [6.2] Standby, Alarm, And Sensitivity Tests [6.2.1] Standby And Trouble

- Standby Look for the presence of the flashing green LED through the transparent housing cover. The LED should flash approximately every 10 seconds.
- If the detector LED does not flash, then the detector lacks power (check wiring, panel, or power supply), the detector board is missing (replace), or the unit is defective (return for repair)
- Test The trouble condition can be caused intentionally to verify correct operation of the system. Remove the detector board to cause a trouble condition locally and at the system control panel. Cover
- Tamper If the cover is removed for a period longer than 20 minutes, a trouble signal is generated to indicate the cover is missing.

### [6.2.2] Alarm Tests [6.2.2.1] M02-04-00 Magnet Test

- 1. Place the painted surface of the magnet onto the TEST locator on the bottom of the housing (Figure 11).
- 2. The red alarm LED on the detector should latch on, as should any accessories (i.e. RA400Z, RTS451). Verify system control panel alarm status and control panel execution of all intended auxiliary functions (i.e. fan shutdown, damper control, etc.).
  - 3. The detector <u>must</u> be reset by system control panel, front cover reset button, or remote accessory.

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