

# Duct Smoke Detector Accessories

## for Notifier/System Sensor Products



Miscellaneous

### General

Duct smoke detector accessories add functionality to the duct smoke system by allowing quick, convenient inspections at eye level and effective audible and visual notification options. All System Sensor duct smoke detectors and accessories are UL listed.

### Specifications

#### APA151 PIEZO ANNUNCIATOR

The **APA151** piezo annunciator, which replaces the APA451 with a new, improved look, provides an audible alarm signal, a red LED to indicate alarm status, and a green LED to indicate power status. It is intended for use with System Sensor 4-wire conventional duct smoke detector applications without a system control panel, to comply with NFPA 90A.



APA151.wmf

| APA151 Piezo Annunciator |                             |
|--------------------------|-----------------------------|
| Voltage                  | Regulated 24 VDC            |
| Operating Voltage        | 16 to 33 VDC                |
| Maximum Alarm Current    | 30 mA                       |
| Temperature Range        | 32°F to 120°F (0°C to 49°C) |
| Relative Humidity        | 10 to 93%, non-condensing   |
| Wire Gauge               | 12 to 18 AWG                |
| Dimensions               | 4.6" H x 2.9" W x .45" D    |

#### MHR/MHW MINI-HORNS

The **MHR** and **MHW** SpectrAlert® Advance mini-horns feature temporal or continuous tones at high and low volume settings. Their small footprint allows mounting to single-gang back boxes for applications where a small device is desired.



MHR.wmf, MHW.wmf



60535cov.wmf

| MHR/MHW SpectrAlert Advance Mini-Horns |                                                                                                                                                              |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Voltage                                | Regulated 12 DC or FWR (Full Wave Rectified) or Regulated 24 VDC or FWR                                                                                      |
| Operating Voltage                      | 8 to 33 VDC (9 to 33 VDC with Sync-Circuit™ Module)                                                                                                          |
| Sounder Current Draw                   | 22 mA RMS max. at 8 to 17.5 Volts DC<br>17 mA RMS max. at 8 to 17.5 Volts FWR<br>29 mA RMS max. at 16 to 33 Volts DC<br>25 mA RMS max. at 16 to 33 Volts FWR |
| Temperature Range                      | 32°F to 120°F (0°C to 49°C)                                                                                                                                  |
| Humidity Range                         | 10 to 93% non-condensing                                                                                                                                     |
| Nominal Sounder Frequency              | 3 kHz                                                                                                                                                        |
| Wire Gauge                             | 12 to 18 AWG                                                                                                                                                 |
| Dimensions                             | 4.6"H x 2.9"W x 0.45"D                                                                                                                                       |

### RA100Z/RA100ZA REMOTE ANNUNCIATORS

The **RA100Z** and **RA100ZA** remote annunciators are designed for both conventional and intelligent applications. Their red LED provides visual indication of an alarm condition.



RA100Z.wmf

| RA100Z/RA100ZA Remote Annunciator |                                                                        |
|-----------------------------------|------------------------------------------------------------------------|
| Voltage Range                     | Conventional System: 3.1 to 32 VDC<br>Intelligent System: 18 to 32 VDC |
| Maximum Alarm Current             | 10 mA                                                                  |
| Dimensions                        | 4.6"H x 2.8"W x 1.3"D                                                  |

### RTS151/RTS151KEY REMOTE TEST STATIONS

The **RTS151** and **RTS151KEY** remote test stations are automatic fire detector accessories designed to test duct smoke detectors from a convenient location. For 4-wire detectors, the **RTS151KEY** test station features a multi-colored LED that alternates between steady green and red. For 2-wire detectors, the LED illuminates red for alarm.



RTS151.wmf, RTS151KEY.wmf

| RTS151 Remote Test Station |                                                                  |
|----------------------------|------------------------------------------------------------------|
| Power Requirements         | Alarm LED 2.8 to 32 VDC, 10 mA max.<br>Total Current: 95 mA max. |
| Test Switch                | 10 VA @ 32 VDC                                                   |
| Reset Switch               | 10 VA @ 32 VDC                                                   |
| Alarm Response Time        | 40 seconds max.                                                  |
| Temperature Range          | 14°F to 140°F (-10°C to 60°C)                                    |
| Relative Humidity          | 95% non-condensing                                               |
| Wire Gauge                 | 14 to 18 AWG                                                     |
| Dimensions                 | 4.8"H x 2.9W x 1.4"D                                             |

### RTS151KEY Remote Test Station with Key

|                     |                                                                                           |
|---------------------|-------------------------------------------------------------------------------------------|
| Power Requirements  | Power LED (Green): 14 to 35 VDC, 12 mA max.<br>Alarm LED (RED): 2.8 to 32 VDC, 12 mA max. |
| Alarm Response Time | 40 seconds max.                                                                           |
| Temperature Range   | 14°F to 140°F (-10°C to 60°C)                                                             |
| Relative Humidity   | 95% non-condensing                                                                        |
| Wire Gauge          | 14 to 18 AWG                                                                              |
| Dimensions          | 4.6"H x 2.75W x 1.8"D                                                                     |

### RTS2/RTS-AOS MULTI-SIGNALLING ACCESSORIES

The **RTS2** and **RTS2-AOS** multi-signaling accessories are designed to work with InnovairFlex 4-wire conventional duct smoke detectors. These accessories include a key switch that can be used to select one of two connected sensors to be tested, reset, or both by a push button switch. They also enable sensitivity measurements using the SENS-RDR sensitivity reader (sold separately). The **AOS** (Add-On Strobe) is an optional accessory included with the **RTS2-AOS** model.



RTS-AOS.wmf, AOS.wmf

### RTS2 and RTS-AOS Multi-Signaling Accessory

|                    |                                                                                                                    |
|--------------------|--------------------------------------------------------------------------------------------------------------------|
| Voltage            | 20 to 29 VDC                                                                                                       |
| Power Requirements | Standby: 3.0 mA max.<br>Trouble: 16.0 mA max.<br>Alarm without Strobe: 30 mA max.<br>Alarm with Strobe: 55 mA max. |
| Sounder            | 85 dBA at 10 ft.                                                                                                   |
| Temperature Range  | 14°F to 140°F (-10°C to 60°C)                                                                                      |
| Relative Humidity  | 95% non-condensing                                                                                                 |
| Wire Gauge         | 14 to 22 AWG                                                                                                       |
| Dimensions         | 4.8"W x 5.3"H x 1.6"D                                                                                              |

## Product Line Information

**APA151:** Piezo Annunciator

**MHR:** Mini-Horn, Red

**MHW:** Mini-Horn, White

**RA100Z/RA100ZA:** Remote Annunciator

**RTS151:** Remote Test Station

**RTS151KEY:** Remote Test Station with Key

**RTS2:** Multi-signaling Accessory

**AOS:** Add-On Strobe

**RTS2-AOS:** Multi-Signaling Accessory

## Temperature and Humidity Ranges

This system meets NFPA requirements for operation at 0 – 49°C/32 – 120°F and at a relative humidity 93% ± 2% RH (noncondensing) at 32°C ± 2°C (90°F ± 3°F). However, the useful life of the system's standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and its peripherals be installed in an environment with a normal room temperature of 15 – 27°C/60 – 80°F.

## Agency Listings and Approvals

The listings and approvals below apply to the basic products. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL: S4011 (APA 151, MHR, MHW), S2522 (RTS2, RA100Z, RTS151, RTS151KEY, RTS2-AOS)**
- **FM Approved**
- **CSFM: 7135-1653:0212**

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