FIREX® the recognized leader in residential fire protection, brings you the latest in duct smoke detection technology. FIREX® Duct Smoke Detectors provide early detection of smoke and products of combustion present in air moving through an HVAC duct. These devices are designed for prevention of smoke recirculation in areas by the air handling systems. Fans, blowers, and complete systems may be shut down in the event of smoke detection. Our universal voltage models will operate on any one of four input voltages.

Air sampling is accomplished by two tubes, which protrude into the duct. An exhaust tube of one standard length (7’’) is provided with each FIREX® Duct Smoke Detector. Intake sampling tubes, which must be ordered separately, are available in three standard lengths.

Duct smoke detector mounting is accomplished by the use of a mounting template and four sheet metal screws, which are provided.

**Additional Features**

- Four sheet metal screws provide easier mounting
- UL 268A Listed
- Factory set tube alignment
- Mechanical installation without cover removal
- Built-in power supply
- Installation template included
- Large terminal connection screws
- Power supervisory relay included
- Two independent form “C” alarm contacts standard
- Compatible with building automation & fire alarm systems
- Dust filtering included in detector head
- No additional screens or filters to clean
- Common or individual remote reset
- Common or individual fan shutdown relay operation
- Common or individual remote alarm indication, i.e. red LED, horn, strobe
- Common or individual head removed remote indication
- One horn/strobe operated by up to 15 detectors

**Interconnect**

Up to 30 models can be interconnected to provide complete HVAC system protection—controlling all connected blowers, fans and dampers.

**High Temperature Design**

Rated to 155°F (ionization model) for rooftop and other installations where high temperatures can cause problems.

**Front Mounted Test / Reset Button**

Provides quick and accurate testing of system.

**Installation Flexibility**

Fast and easy mounting to rectangular ducts.
Wiring

**Power Requirements:**
- 115 Volt AC operation @ 5 mA standby, 15 mA alarm
- 230 Volt AC operation @ 12 mA standby, 16 mA alarm
- 24 Volt AC operation @ 20 mA standby, 50 mA alarm
- 24 Volt DC operation @ 20 mA standby, 50 mA alarm

**Relay Contact Rating:**
- Alarm contacts, two form "C" rated at 10 Amps @ 230 VAC resistive
- Trouble contact, one form "C" rated 10 Amps @ 230 VAC resistive

**Radioactive Element:**
- For model 2650-660 only, Americium 241; 0.9 Micro-Curies

**Sensitivity:**
- Factory set

---

Air duct smoke detectors shall be Firex® item number 2650-660 only, Americium 241; 0.9 Micro-Curies

The detector housing shall be of 18 gauge steel construction with a special ABS-94VO high strength plastic cover for maximum durability. Complete mechanical installation of the unit must be performed without removal of detector cover to prevent dirt and debris from entering unit. The plastic cover shall be clear to allow full visibility of the internal components for future visual inspections.

Detector heads contained within the unit shall not require separate filters or screens which must be maintained or replaced to insure that unit is fully operational. The housing shall accept either ionization or photoelectric type detector heads as required.

Remote Connections (See Below)

**Air Velocity:**
- 500 to 3000 feet/minute

**Approval:**
- Underwriters Laboratories Listed (UL 268A)

**Ambient Temperature:**
- -5°F to 155°F (-23º to 68ºC) Model 2650-660
- -5°F to 120°F (-23º to 48ºC) Model 2650-661

**Humidity:**
- 10% to 85% R.H.

**Material:**
- 18 ga. steel backbox, clear plastic ABS-94VO cover

**Finish:**
- Textured gray finish

**Maximum net weight:**
- 4.0 pounds

**Mounting:**
- Template and necessary hardware supplied

**Dimensions:**
- 9" H x 7" W x 2.25" D (22.9 cm H x 17.8 cm W x 5.7 cm D)

---

Air duct smoke detectors shall be Firex®, item number 2650-660 only, Americium 241; 0.9 Micro-Curies

The detector housing shall be of 18 gauge steel construction with a special ABS-94VO high strength plastic cover for maximum durability. Complete mechanical installation of the unit must be performed without removal of detector cover to prevent dirt and debris from entering unit. The plastic cover shall be clear to allow full visibility of the internal components for future visual inspections.

Detector heads contained within the unit shall not require separate filters or screens which must be maintained or replaced to insure that unit is fully operational. The housing shall accept either ionization or photoelectric type detector heads as required.

Remote Connections (See Below)

**Air Velocity:**
- 500 to 3000 feet/minute

**Approval:**
- Underwriters Laboratories Listed (UL 268A)

**Ambient Temperature:**
- -5°F to 155°F (-23º to 68ºC) Model 2650-660
- -5°F to 120°F (-23º to 48ºC) Model 2650-661

**Humidity:**
- 10% to 85% R.H.

**Material:**
- 18 ga. steel backbox, clear plastic ABS-94VO cover

**Finish:**
- Textured gray finish

**Maximum net weight:**
- 4.0 pounds

**Mounting:**
- Template and necessary hardware supplied

**Dimensions:**
- 9" H x 7" W x 2.25" D (22.9 cm H x 17.8 cm W x 5.7 cm D)