



# PAD100-DUCT

## ANALOG ADDRESSABLE DUCT DETECTOR



P/N 97676

### Features

- Detects smoke in building HVAC ducts
- Ships complete with housing and detector
- Compatible with addressable IPA series panels
- SLC in and out wire terminals
- SLC Class A, Class X & Class B
- Installation without removing the detector
- Listed Air Velocity of 100 to 4,000 ft/minute
- No screens or filters in housing
- Durable plastic enclosure and clear cover
- Integrated cover tamper switch
- Utilizes simple snap in sampling tubes STN series

### Specifications

Operating Voltage: 24 VDC  
Current Draw: 300  $\mu$ A  
Detector Head Model: PAD100-DD  
Detector Head Type: Photoelectric  
Sensitivity Test Method: Self diagnostic test  
Air Velocity: 100 to 4000 ft./min  
Ambient Temperature: 32°F to 120°F (0°C to 49°C)  
Humidity: 10% to 85% Relative humidity (noncondensing)  
Housing Material: Plastic backbox, clear plastic cover  
Finish: Gray backbox with clear cover  
Dimensions: 13.5" x 4.5" x 2.25" (343 mm x 114 mm x 57 mm)  
Maximum Net Weight: 2 lbs.  
Sampling Tubes: 2.5 ft., 5 ft., or 10 ft.

### Description

The PAD100-DUCT is designed and built to meet all local requirements, as well as the NFPA regulations regarding duct smoke detectors. Air sampling is accomplished by two tubes which protrude into the duct. An exhaust tube of one standard length (7") is supplied in the installation kit with the smoke duct unit. Once the duct width has been determined the air intake sampling tubes must be ordered. Sampling tubes are supplied in three standard lengths: 2.5 ft., 5 ft., and 10 ft. and cut to size to fit the duct. Mounting the duct smoke unit is accomplished by the use of a template and 2 sheet metal screws, which are provided. Mounting can be achieved without the removal of the clear cover which is secured by 4 capture screws.

### Application

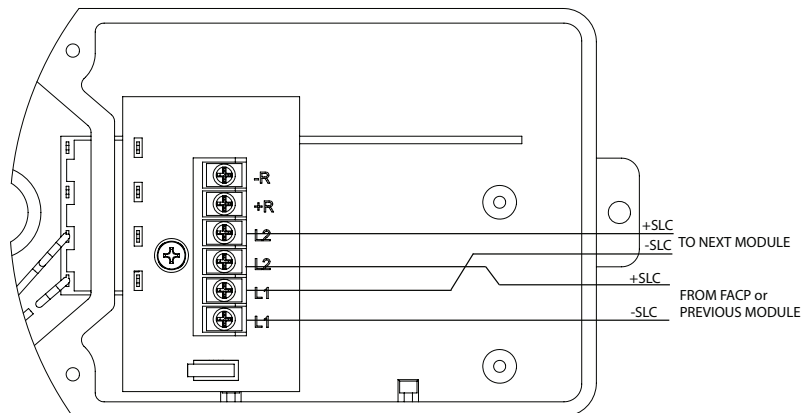
The PAD100-DUCT duct smoke detector provides early detection of smoke and products of combustion present in air moving through HVAC ducts in commercial, industrial and residential applications. The PAD100-DUCT is compatible with the JFS-IP series addressable fire alarm control panels.



## Engineering Specifications

Air duct smoke detectors shall be PAD100-DUCT Series. The detectors shall be listed by Underwriters Laboratories per UL 268A. The detectors shall operate at air velocities from 100 feet per minute to 4000 feet per minute. The duct detector housings shall be of plastic construction and complete mechanical installation may be performed without removal of detector cover. Visual indication of alarm and power must be provided on detector front. Detector heads shall not require additional filters or screens which must be maintained. The housing shall contain a detector base and PAD100-DD duct smoke detector head. Terminal connections shall be of the screw type and be a minimum of # 12 screw. All wiring must comply with local codes and regulations. Detector shall use the STN series of sampling tubes.

## Wiring Diagram



Ordering Information		
Model Number	Description	P/N
PAD100-DUCT	Analog Addressable Duct Detector	97676
STN-2.5	2.5' Sampling Tube	97650
STN-5	5' Sampling Tube	97649
STN-10	10' Sampling Tube	97648

*Note: Approvals/Listings maintained by and manufactured by Potter Electric Signal Company.*

The seller makes no warranties, express or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose, except as expressly stated in the seller's sales contract or sales acknowledgment form. Every attempt is made to keep our product information up-to-date and accurate. All specific applications cannot be covered, nor can all requirements be anticipated. All specifications are subject to change without notice.



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