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Description

Pinnacle™ model 7251 is an intelligent laser-based photoelectric smoke detector featuring extensive on-board signal processing capabilities designed to improve smoke response. Pinnacle also features a patented smoke sensing chamber, designed to amplify signals from smoke, but diminish stray internal reflections. By using a laser diode instead of a standard LED light source into the sensing chamber, Pinnacle is able to achieve sensitivities from 0.02% to 2% per foot obscuration.

The detectors' extensive software processing includes multi-alert drift compensation, internal self diagnostics, and superior transient signal rejection algorithms to produce unprecedented stability at ultra high sensitivities, over the complete temperature range.

Features

- Pinpoint identification of the fire location resulting from addressability.
- No delay in response because of smoke dilution or smoke transportation time as in aspirated systems.
- Complete supervision of wiring and detector.

Pinnacle is designed to protect valuable assets and operations where systems must remain online at all times. Many sensitive areas tolerate even small amounts of smoke. Some ideal applications for Pinnacle include:

- Telecommunications switching facilities
- Cellular telephone infrastructure
- Integrated circuit fabrication facilities
- Computer rooms
- Traffic control centers
- Clean rooms

7251 with B210LP Flanged Mounting Base



7251 with B501 Flangeless Mounting Base

Ordering Information

Model Number	Part Number	Description
7251	349-1076	Laser-Based High Sensitivity Photo Smoke
B501(A)	349-0515	Flangeless Mounting Base
B210LP(A)	349-0757	Flanged Mounting Base
B501BH(A)	349-0525	Standard Sounder Base
B501BHT(A)	349-1023	Temporal Tone Sounder Base
B224RB(A)	349-0647	Relay Base
B224BI(A)	349-0856	Isolator Base
SMK400	349-0889	Flangeless Surface Mounting Kit
RA400Z(A)	RA400	Remote LED Annunciator

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### Ordering Information Continued

Model Number	Part Number	Description
MO2-04-01	349-0892	Detector Test Magnet
MO2-09-00	349-1016	Telescoping Test Magnet
XR-2	349-0445	Detector Removal Tool
XP-4	349-0781	Extension for XR-2 (5-15 ft.)

### Specifications

Voltage Range 15 - 32 volts DC peak	Diameter 4.0" (10.2 cm)	Smoke Sensitivity 9 levels:
Standby Current (max. avg.) 230 $\mu$ A @ 24 VDC (without communication), 330 $\mu$ A @ 24 VDC (one communication every 5 sec. with LED enabled)	Shipping Weight 5.6 oz. (159 g)	0.02, 0.03, 0.05, 0.10, 0.20, 0.50 1.00, 1.50, 2.00%/ft. obscuration (0.06, 0.10, 0.16, 0.33, 0.66, 1.65 3.24, 4.85, 6.41%/m obscuration)
LED Current (max.) 6.5 mA @ 24 VDC (on)	Operating Temperature Range 32° to 100°F (0° to 38°C)	Drift Compensation High sensitivity maintenance alert signal Low sensitivity maintenance alert signal Maintenance urgent signal
Height 1.66" (4.2 cm)	Velocity Range 0 - 4000 fpm (0 to 20.3 m/s)	
	Relative Humidity 10% - 93% noncondensing	
	Self Diagnostics Initiated by control panel Activated by test magnet	



NOTICE: The information contained in this document is intended only as a summary and is subject to change without notice. The devices described in this document have specific instruction sheets which cover various technical, limitation and liability information. Copies of these instruction sheets and the General Product Warning and Limitations Document, which also contains important information are provided with the product and are available from Harrington Signal Inc. Fire Alarm. Information contained in these documents should be consulted before specifying or using the product. For further information or assistance concerning particular problems contact Harrington Signal Inc. Harrington Signal Inc. Fire Alarm reserves the right to change specifications without notice.