



AA 7251 Laser Smoke Detector

Product Overview:

200 Series intelligent plug-in **Pinnacle** smoke sensors, model **7251**, have a laser-based photo-electric smoke chamber, giving a highly stable smoke response for sensitivities from 0.06%/m to 6.41%/m obscuration. Analogue addressable communications provide features that far surpass those of conventional detectors and advanced software algorithms to analyse and filter the response from the patented light amplifier ensure a high degree of resistance to nuisance alarms. Individual sensor alarm thresholds are programmable within the control panel software. The F100A, F120A and F220 control panels can utilise the 9 sensitivities available from a single sensor and respond accordingly. The smoke levels within the sensor are continuously monitored and reported to the panel. With the 200 Series addressable capability, each sensor's address is easily set with decade address switches, giving the precise location of each sensor in the event of a fire or for selective maintenance when chamber contamination reaches specified levels.

Manufactured by System Sensor, reliability is assured with a three year warranty from date of manufacture.



7251 Pinnacle Sensor

Features:

- » Sleek, low-profile design
- » Analogue addressable communication
- » Stable communication technique with noise immunity
- » Nine individual Smoke Sensitivity thresholds (0.06 – 6.41%/m obscuration)
- » Suitable for use in clean rooms with very high sensitivity for early warning
- » Four levels of Maintenance Alert
- » Low Standby Current
- » Rotary Decade Address Switches, 1 to 99
- » 99 Sensors per loop
- » Dual Red indicating LEDs for 360°visibility
- » Optional Remote LED accessory

Specifications:

» Dimensions	102 x 44 mm	Diameter x Depth in a B501AUS base		
	102 x 51 mm	Diameter x Depth in a B524IEFT-1 base		
» Weight	116 g (excl. base)			
» Material	Bayblend FR110			
» Operating Temperature Range	0°C to 38°C			
» Air Velocity Range	0 – 20 m/s			
» Smoke Sensitivity	Level 1	0.06%/m	Level 6	1.65%/m
	Level 2	0.10%/m	Level 7	3.24%/m
	Level 3	0.16%/m	Level 8	4.85%/m
	Level 4	0.33%/m	Level 9	6.41%/m
	Level 5	0.66%/m		
» Operating Humidity Range	10% to 93%, non-condensing			
» Operating Voltage Range	15 Vdc to 32 Vdc			
» Max. Standby Current	330 µA @ 24 Vdc			
	(one communication every 5 sec. with LED blink enabled)			
» Max. Alarm Current (LED on)	6.5 mA @ 24 Vdc			



B501AUS Base



B524IEFT-1 Isolator Base

Listings and Approvals:

ActivFire: afp – 1445

Ordering Information:

Product Code	Description
7251	AA Laser Smoke Detector
B501AUS	AA Detector Base
B524IEFT-1	AA Detector Base with Isolator

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