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.

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 2: 0.10%/m
  - Level 3: 0.16%/m
  - Level 4: 0.33%/m
  - Level 5: 0.66%/m
  - Level 6: 1.65%/m
  - Level 7: 3.24%/m
  - Level 8: 4.85%/m
  - Level 9: 6.41%/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

Listings and Approvals:
ActivFire: afp – 1445

Ordering Information:

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>7251</td>
<td>AA Laser Smoke Detector</td>
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<tr>
<td>B501AUS</td>
<td>AA Detector Base</td>
</tr>
<tr>
<td>B524IEFT-1</td>
<td>AA Detector Base with Isolator</td>
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Analogue Addressable Laser Smoke Detector Iss 1.5 20170619