AA Acclimate Multi-Criteria Detector

Product Overview:

The **Analogue Addressable Acclimate Multi-Criteria Sensor 2251TMBPI** has two sensing elements: A photo-electronic smoke chamber, and dual thermistor type "B" fixed temperature heat sensor. Advanced internal software interprets signals from both elements to achieve excellent nuisance alarm rejection combined with high sensitivity to real fires. Analogue addressable communication with the fire alarm control panel provides capabilities far beyond what can be achieved with conventional detectors.

The smoke and heat levels in the sensor are continuously monitored and reported to the panel. Individual sensor alarm thresholds are programmable within the control panel software. Pertronic analogue addressable control panels are able to differentiate between a heat alarm and a smoke alarm from a single sensor. The control panel can trigger different types of response, appropriate to the information from the sensor. A low level of smoke may trigger an alert. A heat alarm would trigger a fire alarm.

2251TMBPI

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 an unacceptable level.

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

Features:

- » Sleek, low-profile design
- » Analogue addressable communications
- » Stable communication technique with noise immunity
- » Three individual smoke sensitivity thresholds (3.3 %/m – 13 %/m)
- » Two automatically adjusting smoke sensitivity thresholds
- » 63 °C fixed temperature thermal alarm (Type "B")
- » Low standby current
- » Rotary decade address switches, 1 to 159
- » 159 Sensors per Loop (panel dependant)
- » Dual red indicating LEDs for 360° visibility
- » Remote indicator LED accessory

Specifications:

- » Dimensions
  - 102 x 51 mm   Diameter x Height in B501AUS base
  - 102 x 58 mm   Diameter x Height in B524IEFT-1 base
- » Weight   89 gms (excl. base)
- » Operating Temperature Range   0 °C to 49 °C
- » Smoke Sensitivity

Level 1:	3.3 %/m
Level 2:	3.3 %/m to 6.6 %/m Auto-Acclimatising
Level 3:	6.6 %/m
Level 4:	6.6 %/m to 13 %/m Auto-Acclimatising
Level 5:	13 %/m
Level 6:	Heat Only – 63 °C

- » Heat Sensor   Type B
- » Fixed Temperature Rating   63 °C
- » Operating Humidity Range   10 % to 93 % RH, non-Condensing
- » Operating Voltage Range   15 Vdc to 32 Vdc
- » Standby Current   360 µA @ 24 Vdc
  - (one communication every 5 seconds with LED blink enabled)
- » Max. Alarm Current (LED on)   6.5 mA @ 24 Vdc

B501AUS Detector Base   **B524IEFT-1 Isolator Base**

Listings and Approvals:

ActivFire: afp – 2114

Ordering Information:

Product Code	Description
2251TMBPI	AA Acclimate Multi-Criteria Smoke Detector
B501AUS	AA Detector Base
B524IEFT-1	AA Detector Base with Isolator
B501/W	AA Detector Base - White

Analogue Addressable Smoke Detectors Iss 1.7 20170526