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Indoor Detectors: AA Fixed (Static) Temperature Thermal Detector

AA Thermal with ROR Detector

Weatherproof Detectors: AA Weatherproof Fixed (Static) Temperature Heat Detector

AA Weatherproof Thermal with ROR Detector

Product Range Overview

These analogue addressable heat detectors are available in two types: fixed (static) alarm threshold; or rate-of-rise (ROR) alarm threshold. There are indoor and weatherproof variants of each type.

Both rate-of-rise and fixed (static) threshold types measure the temperature in their surroundings, and continually report this temperature measurement to the fire alarm control panel. The panel will initiate an alarm condition if the temperature measurement goes above the alarm threshold, which is defined in the panel configuration.

Rate-of-rise heat detectors also signal an alarm condition to the panel if the temperature increases rapidly. The rate of rise alarm is configured in the detector. The fire alarm control panel will automatically initiate an alarm condition if it receives a rate-of-rise alarm from the detector.

Heat detector addresses are easily configured during installation, allowing the panel to identify the exact location of the source of an alarm.



Heat Detectors

Features:

Indoor

- ▶ Low standby current
- ▶ Stable communication technique with noise immunity
- ▶ Configurable heat sensitivity
- ▶ Rotary decade address switches, 1 to 159
- ▶ 159 detectors per loop (panel dependent)
- ▶ Dual red indicating LEDs for 360° visibility
- ▶ Remote indicator LED accessory

Weatherproof

- ▶ Low standby current
- ▶ Stable communication technique with noise immunity
- ▶ Configurable heat sensitivity
- ▶ CP500 programmer to program before installing, 1 to 159
- ▶ 159 detectors per loop (panel dependent)
- ▶ Dual red indicating LEDs for 360° visibility
- ▶ Remote indicator LED accessory
- ▶ Weatherproof IP rating: IP 67
- ▶ Tail lead length: 30 cm
- ▶ Special detector base B501A included

Indoor Products:



5251BPI



5251RBPI



B501AUS Detector Base



**B524IEFT-1 Isolator
Detector Base**

Model **5251BPI** is AS 1603.1-1997 Type B fixed temperature heat sensor with configurable threshold.

Model **5251RBPI** is AS 1603.1-1997 Type A rate of temperature rise heat sensor with:

- Non-configuration rate of rise (ROR) alarm
- Fixed temperature alarm with configurable threshold

5251BPI and **5251RBPI** both of these models fit the plug-in analogue addressable detector base **B501AUS** (Ivory), **B501AUS-W** (White) and isolator detector base **B524IEFT-1**.

Weatherproof Products:



**5251B-WP
5251RB-WP**



CP500 Programmer

Model **5251B-WP** is AS 7240.5-2004 Type A2 static temperature heat sensor with configurable threshold.

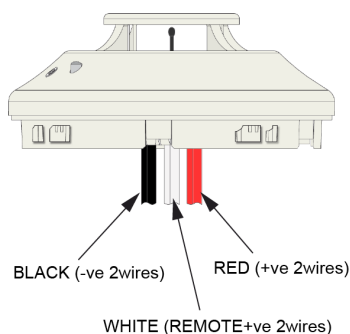
Model **5251RB-WP** is AS 7240.5-2004 Type A2R rate-of-rise temperature heat sensor with configurable static response threshold.

These detectors are designed to provide open area protection in areas subject to moisture and are sealed against the entry of moisture to a rating of IP 67.

A handheld programmer **CP500** is available to configure detector addresses for the weatherproof detectors (5251B-WP and 5251RB-WP).

Each **5251B-WP** and **5251RB-WP** weatherproof detector is supplied complete with special base B501A.

The detector has 30 cm four core wire tail for terminating to the analogue addressable loop.



Specifications:

| | Indoor | Weatherproof |
|-------------------------------|---|---|
| ▶ Product Code | 5251BPI / 5251RBPI | 5251B-WP / 5251RB-WP |
| ▶ Max. Standby Current | 195 µA @ 24 Vdc (one communication every 5 seconds with LED blink enabled) | 300 µA @ 24 Vdc |
| ▶ Alarm Current (LED on) | 6.5 mA @ 24 Vdc | |
| ▶ Operating Voltage Range | 15 Vdc to 32 Vdc | |
| ▶ ROR Detection | Responds to greater than 8.3 °C/min (5251RBPI) | Complies with rate of rise Type: A2R (5251RB-WP) |
| ▶ Operating Temperature Range | -20 °C to 50 °C | |
| ▶ Humidity | 10 % to 90 % RH, non-condensing | |
| ▶ Dimensions | 102 x 51 mm (in B501AUS base) 102 x 58 mm (in B524IEFT-1 base) | 102 x 51 mm (in B501A special base) |
| ▶ Weight | 83 gms (excl. base) | 170 gms (incl. base) |

F100A and F120A / F220 Heat Detector Alarm Sensitivity Levels

| | F100A Sensitivity Level | Alarm Temperature | F120A Sensitivity Level | Alarm Temperature |
|-----------|----------------------------|----------------------|----------------------------|----------------------|
| 5251BPI | 1 | 63 °C | 1 | 58 °C |
| 5251RBPI | 2 | 70 °C | 0 | 63 °C |
| 5251B-WP | 3 | 78 °C | - 1 | 80 °C |
| 5251RB-WP | 4 | 85 °C | - 2 | 87 °C |

| Ordering Information: | | |
|-----------------------|--|------------------|
| Product Code | Description | NZFPAListing No: |
| 5251BPI | Analogue Addressable Heat Detector excl Base | PI/236 |
| 5251RBPI | Analogue Addressable ROR Heat Detector excl Base | PI/237 |
| 5251B-WP | AA Weatherproof Heat Detector including Special Base | PI/246 |
| 5251RB-WP | AA ROR Weatherproof Heat Detector including Special Base | PI/247 |
| CP500 | Handheld Programmer for AA Weatherproof Detectors | N/A |
| B501AUS | AA Base | N/A |
| B524IEFT-1 | AA Base with Isolator | PI/621 |
| B501AUS-W | AA Base, White | N/A |

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