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ISO 9001:2008

Certificate No:  
205487-2016-  
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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
- ▶ Detector base B501A included

## Indoor Products:



**5251BPI**



**5251RBPI**



**B501 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 **B501** (Ivory), **B501/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.

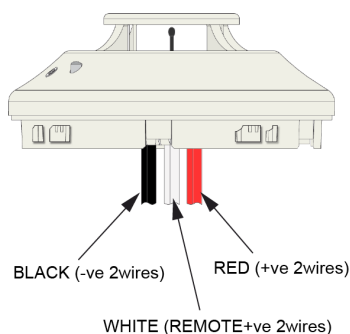
Model **5251RB-WP** is AS 7240.5-2004 Type A2R rate-of-rise temperature heat sensor with configurable static response threshold.

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 base B501A.

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



## Specifications:

	Indoor	Weatherproof
▶ Product Code	<b>5251BPI / 5251RBPI</b>	<b>5251B-WP / 5251RB-WP</b>
▶ 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 B501 base) 102 x 58 mm (in B524IEFT-1 base)	102 x 51 mm (in B501A 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	NZFPA Listing 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
B501	AA Base	N/A
B524IEFT-1	AA Base with Isolator	PI/621
B501/W	AA Base, White	N/A

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