

FAPT-851AUS

Acclimate™ Dual Technology Sensor



Intelligent/Addressable Devices

General

The Notifier FAPT-851AUS Acclimate™ detector is an intelligent, addressable, multi-sensing, low-profile detector designed for use with Notifier Fire Alarm Control Panels.

The Acclimate™ detector uses a combination of photoelectric and thermal sensing technologies to increase immunity to false alarms. Unlike traditional intelligent detectors, the Acclimate™ detector has a microprocessor in the detector head that processes alarm data. As a result, the Acclimate™ detector adjusts its sensitivity automatically, without operator intervention or control panel programming.

Areas where the Acclimate™ detector is especially useful include office complexes, schools, college campuses, manufacturing and industrial facilities, and anywhere else the use of a particular area may change. The Acclimate™ detector automatically adjusts its sensitivity to the environment.

FlashScan is a communication protocol developed to greatly enhance the speed of communication between analogue intelligent devices and compatible systems. Intelligent devices communicate in a grouped fashion. If one of the devices within the group has new information, the panel's CPU stops the group poll and concentrates on single points. The net effect is response speed greater than five times that of earlier designs.

Features

- Automatically adjusts sensitivity levels without operator intervention or programming. Sensitivity increases with heat.



- Microprocessor-based, combination photo and thermal technology.
- FlashScan and CLIP compatible.
- Sleek, low-profile design.
- Addressing by rotary decade switch.
- Addresses can be viewed and changed without electronic programmers.
- Dual bi-color LED design provides 360° viewing angle.
- LEDs lock red when in alarm. In FlashScan, LEDs flash green in stand-by for normal condition.
- Built-in tamper-resistant feature.
- Sealed against back pressure.
- Several base options, including relay, isolator, and sounder.
- Built-in functional test switch activated by external magnet.
- Capable of heat-only alarm mode, enabled by a special command from the panel. Smoke alarms are ignored.

Approvals:

CSIRO ActivFire listed to
AS 1603.2 - 1997 (afp - 1414)

Specifications:

Sensitivity:	2% to 15% Obscuration per metre 63.0°C Fixed Temperature Rating
Operating Voltage Range:	15 VDC to 32 VDC
Standby Current:	300 µA @ 24 VDC (one communication every 5 seconds with LED blink enabled)
Maximum Alarm Current (LED On):	6.5 mA @ 24 VDC
Operating Humidity Range:	10% to 93% Relative humidity (Non-condensing)
Operating Temperature Range:	-10° C to 49° C
Height:	69 mm installed in B501 base

SENSITIVITY SETTINGS *(% Obscuration/Metre)*

- Level 1:** 1.63%
- Level 2:** 3.25%
- Level 3:** 3.25 - 6.5% Auto
- Level 4:** 6.5%
- Level 5:** 6.5 - 9.75% Auto
- Level 6:** 9.75%
- Level 7:** 9.75 - 13% Auto
- Level 8: Default** 13%
- Level 9:** 63°C Heat Only.

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