HM-PTSE-AP
ADDRESSABLE DETECTION

Delivering a totally new detector platform, incorporating an advanced digital protocol

The revolutionary HM Advanced range delivers a totally new detector platform that incorporates the new digital series Advanced Protocol. The new Protocol delivers more devices on the loop and gives greater control, configurability and device management whilst enabling the overall system to be optimised to the location and use of the building with far greater flexibility than ever before.

All HM series detectors are environmentally friendly and meet the WEEE and RoHS legislative requirements, minimising end of life disposal costs, and are mechanically and electrically backwards compatible with existing devices.

The devices utilise the universal B501AP base making the installation process simple and fast.

FEATURES AND BENEFITS

- Available with or without short circuit isolation
- Isolator per device allows faster, more precise fault finding
- Rotary decade address switches
- Ivory colour to harmonise with the modern built environment

- Worldwide proved reliability
- Easy to maintain (washable filter)
- Enhanced smoke chamber design to reduce false alarms by dust or contamination
- Fast installation with rotary addressable switches (01-159)

- Aesthetic design to harmonise with the modern built environment
- Base complements the detector and is easy to install and wire
- Genuine and fast response
- Advanced protocol and smoothing filter to suppress false alarm

- Analog addressable communication
- Dual integrated LED for 360° visibility
- Conforms to EN54-7
- LPCB approved
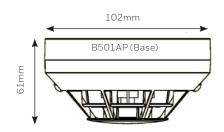- Environment friendly – meets RoHS legislative requirements

Honeywell

HM–PTSE–AP, HM–PTSE–I–AP Photoelectric Smoke / Thermal Multi–Criteria Fire Detectors

The multi-criteria Photo Thermal detector uses thermal assistance to the core photoelectric smoke detector to give enhanced false alarm immunity and faster response to a wide range of incipient fires. The plug-in unit combines two separate sensing elements that are managed by embedded software to act as a single unit. The Multi-Criteria Detector conforms to EN54-5, a 58°C fixed temperature and rate of rise thermal, with the smoke detection element conforming to EN54-7.

The HM-PTSE-AP, HM-PTSE-I-AP has two integral red LEDs that provide 360° local visual indication of the device status.

102mm
B501AP (Base)
61mm

MECHANICAL SPECIFICATION	
HEIGHT	61mm installed in B501AP base
DIAMETER	102mm installed in B501AP base
WEIGHT	99g (inc base)
MAX WIRE GAUGE FOR TERMINALS	2.5mm^2
COLOUR	White
MATERIAL	PC / ABS

ELECTRICAL SPECIFICATIONS - NON-ISOLATED PRODUCT (HM-PTSE-AP)	
OPERATING VOLTAGE RANGE	15 to 32Vdc
MAXIMUM STANDBY CURRENT	260μA at 24Vdc (no communications) 310μA at 24Vdc (LED blink enabled, once every 5s)
LED CURRENT	3.5mA at 24Vdc
REMOTE OUTPUT VOLTAGE	22.5Vdc @ 24Vdc
REMOTE OUTPUT CURRENT	10.8mA @ 24Vdc
ADDITIONAL LOOP RESISTANCE USING THE B501AP	typ 20mohm (max 30 mohm)

ELECTRICAL SPECIFICATIONS - ISOLATOR VERSION (ONLY FOUND IN HM-PTSE-I-AP)	
OPERATING VOLTAGE RANGE	15 to 28Vdc
MAXIMUM STANDBY CURRENT	200μA at 24Vdc (no communications) 300μA at 24Vdc (LED blink enabled, once every 5s)
ISOLATION CURRENT	15mA at 24Vdc
MAXIMUM CONTINUOUS CURRENT	1A (Switch Closed)
ADDITIONAL LOOP RESISTANCE	typ 80 mohm @24V (max 170mohm @ 15V)