

# HM-PSE-AP ADDRESSABLE DETECTION

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

The revolutionary HM Series Advanced Protocol range delivers a totally new detector platform that incorporates the new digital Series. 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 Advanced detectors are environmentally friendly and meet the WEEE and RoHS requirements, minimising end of life disposal costs, and are mechanically and electrically backwards compatible with existing Morley devices.



## 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 rotatory 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

# HM SERIES DETECTORS DATA SHEET ADDRESSABLE DETECTION

## SPECIFICATIONS

### HM-PSE-AP, HM-PSE-I-AP- Photoelectric Smoke Detectors

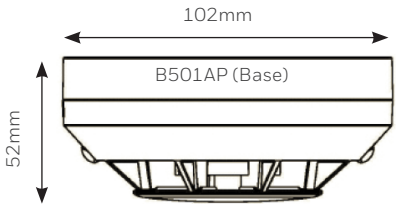
The HM-PSE-AP & HM-PSE-AP-I; photoelectric smoke detector has a completely new detection chamber design, the result of many years of research and design Honeywell. This delivers improved responsiveness, reduced sensitivity changes caused by settling dust and reduced

false alarms resulting from insect ingress and other debris. The plug-in unit uses sophisticated processing circuitry that incorporates smoothing filters to help eliminate transient environmental noise conditions that can be the cause of unwanted alarms. The devices are managed by embedded software running complex algorithms that further improve resilience to false alarms and improve detection speed.

The devices utilize the universal MI/B501AP/IV base, making installation process simple and fast

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

MECHANICAL SPECIFICATION	
HEIGHT	52mm installed in B501AP base
DIAMETER	102mm installed in B501AP base
WEIGHT	97g (inc base)
MAX WIRE GAUGE FOR TERMINALS	2.5mm <sup>2</sup>
COLOUR	White
MATERIAL	PC / ABS



ELECTRICAL SPECIFICATIONS - NON-ISOLATED PRODUCT (HM-PSE-AP)	
HEIGHT	52mm installed in B501AP base
OPERATING VOLTAGE RANGE	260µA at 24Vdc (no communications) / 310µA at 24Vdc (LED blink enabled, once every 5s)
MAXIMUM STANDBY CURRENT	260µA at 24Vdc (no communications) 310µA at 24Vdc (LED blink enabled, once every 5s)
LED CURRENT	3.5mA at 24V
REMOTE OUTPUT VOLTAGE	22.5Vdc @ 24Vdc
REMOTE OUTPUT CURRENT	10.8mA @ 24Vdc
ADDITIONAL LOOP RESISTANCE USING THE B501AP	typ 20mohm (max 30 mohm)

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ELECTRICAL SPECIFICATIONS - ISOLATOR VERSION (ONLY FOUND IN HM-PSE-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)
REMOTE OUTPUT VOLTAGE	22.5Vdc @ 24Vdc
ADDITIONAL LOOP RESISTANCE	typ 80 mohm @24V (max 170mohm @ 15V)
ADDITIONAL LOOP RESISTANCE USING THE B501AP	typ 20mohm (max 30 mohm)

ENVIRONMENTAL SPECIFICATIONS	
TEMPERATURE RANGE	-30°C to +70°C
HUMIDITY	10 to 93% relative humidity (non-condensing)

APPROVALS	
EN54-17 : 2005, EN54-7 : 2000+A1:2002+A2:2006	