HM-RHSE-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 optimized 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

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# HM SERIES DETECTORS DATA SHEET ADDRESSABLE DETECTION

HM-FHSE-I-AP Thermal Sensors

The HM-FHSE-I-AP are fixed temperature analogue addressable sensors employing low mass thermistors and microprocessor technology for fast response and linear temperature sensing. Their linear response allows these sensors to be used to signal temperatures over the range of 58°C (Class A1S).

The HM–RHSE-AP & HM–RHSE-I-AP uses the same thermistor and microprocessor technology to provide an alarm when the rate of rise in temperature exceeds 10°C/minute (typical) or if the temperature exceeds a threshold of 58°C (Response Class A1R). The detectors have two integral red LEDs that provide 360° local visual indication of the device status.

MECHANICAL SPECIFICATION	
HEIGHT	61mm installed in B501AP base
DIAMETER	102mm installed in B501AP base
WEIGHT	88g (inc base)
MAX WIRE GAUGE FOR TERMINALS	2.5mm^2
COLOUR	White
MATERIAL	PC / ABS
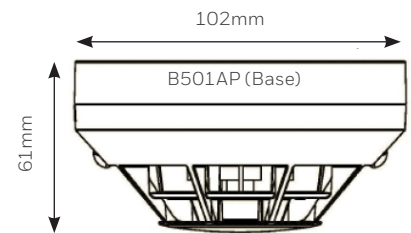
ELECTRICAL SPECIFICATIONS - NON-ISOLATED PRODUCT (HM-FHSE-AP, HM-RHSE-AP)	
OPERATING VOLTAGE RANGE	15 to 32Vdc
MAXIMUM STANDBY CURRENT	260µA at 24Vdc (no communications) 310µA at 24Vdc (LED blink enabled, once every 5s)
LED CURRENT	3.5mA at 24Vdc
REMOTE OUTPUT VOLTAGE	22.5Vdc @ 24Vdc
REMOTE OUTPUT CURRENT	10.8mA @ 24Vdc
ADDITIONAL LOOP RESISTANCE USING THE B501AP	typ 20mohm (max 30 mohm)

ELECTRICAL SPECIFICATIONS - ISOLATOR VERSION (ONLY FOUND IN HM-FHSE-I-AP , HM-RHSE- I-AP)	
OPERATING VOLTAGE RANGE	15 to 28Vdc
MAXIMUM STANDBY CURRENT	160µA 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)

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

APPROVALS
HM-RHSE-AP, HM-RHSE- I-AP: EN54-5: 2000 Class A1R (and EN54-17: 2005 for -I) HM-FHSE-AP, HM-FHSE-I-AP: EN54-5: 2000 Class A1S (and EN54-17: 2005 for -I) EN54-5 states that Class A1 has a maximum application temperature of 50ºC, Class B has a maximum application temperature of 65ºC.

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