# ADDRESSABLE HEAT DETECTOR

**MODEL: AS-801-HD**



## Approvals:

STQC Certification | CE | EN54 Complied | ERTL As per IS : 2189

## Recommended Cabling:

1.5 Sqmm or above fire cable is recommended, laid through metal or flame-retardant conduit, but subject to local codes. Note: Different colour cables are used to avoid wiring mistakes.

## Description:

**Addressable Intelligent Heat Detector** uses a Dual thermistor to sense the air temperature at the detector position. The thermistor is connected in a resistor network, which produces a voltage output dependent on temperature. The design of the resistor network, together with the processing algorithm in the micro-controller, gives an approximately linear characteristic from 0ºC to 60ºC. This line arised signal is further processed, depending upon the response mode selected, and converted to an analogue output.
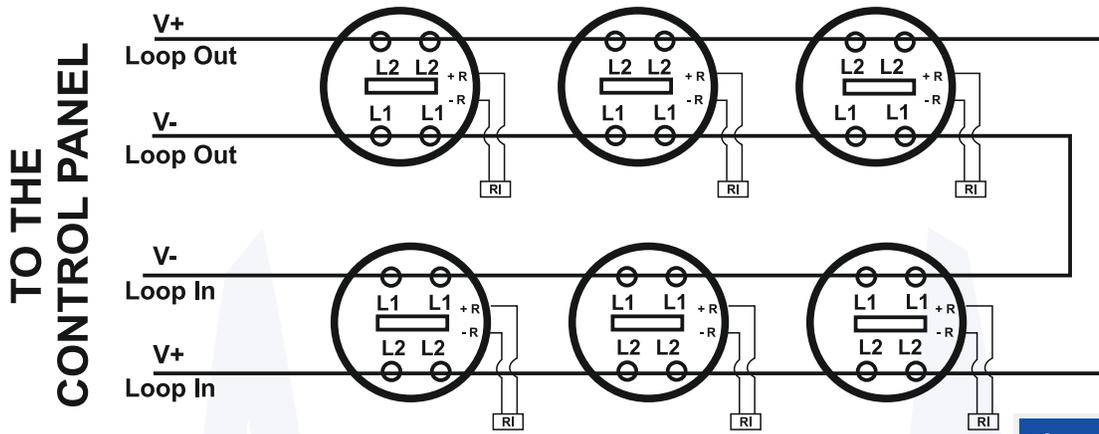
## Technical Specification

| | |
|---|---|
| Operating Loop Voltage | 22–24 Vdc |
| Standby Current | 2.2 mA |
| Alarm Current | 4.2 mA (without remote indicator) |
| LED Indication | Green. Flashes every 3s normally. RED Steadily Illuminates after alarming. |
| Remote Indicator Output | Directly connecting with detector. |
| Programming Method | Programming from ASES PROGRAMMER (RPTU) |
| Wiring Polarized | 2-core for a loop. Polarized 2-core for the remote detector. |
| Sensor | Dual NTC thermistor |
| Environment Temperature | -10 $^{\circ}$C to 60 $^{\circ}$C |
| Relative Humidity | 5% – 95% Rh |
| Response Temperature | 58$^{\circ}$C |
| Material of Enclosure | ABS |
| Dimensions Diameter with Base | 105 mm Diameter x 52 mm Depth approx |
| Weight with Base | 150 g approx |

## Features :

Address programmable through ASES- RPTU.

Heat algorithm greatly improves sensitivity.

Dual LED design provides 360º viewing.

Response indicator output available.

Fix temperature at 58ºC

Reliable fire detection in areas with a wide Ambient temperature range from -10 $^{\circ}$C to 60 $^{\circ}$C.

Rate of rise temperature sensing.

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## Connection and Cabling:



**TO THE CONTROL PANEL**

V+ Loop Out
V- Loop Out
V- Loop In
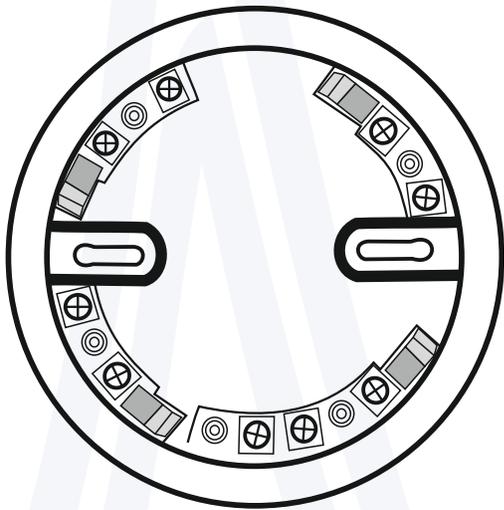V+ Loop In

**There are Four terminals with numbers on the base.**

- L1 (−) : LOOP OUT NEGATIVE
- L2 (+) : LOOP OUT POSITIVE
- R (+) : RESPONSE INDICATOR
- R(−) RESPONSE INDICATOR

## Detector base image for wiring:



## Mechanical Description:



105mm

LED          LED

52 mm     11mm

CASE MOULDING

PCB          LID MOULDING

PCB cover

Thermistor

Case molding

Thermistor