

# DIGITAL ADDRESSABLE HEAT DETECTOR MODEL: AS-602-HD-EIA



### Description:

Digital Addressable Heat Detector uses a single 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 -10°C to 60°C. This linearised signal is further processed, depending upon the response mode selected, and converted to an Digital output.

### Features :

- Address programmable through Dip Switch
- Heat algorithm greatly improves sensitivity.
- Dual LED design provides 360° viewing.
- Remote indicator output available.
- Fix temperature at 58°C
- Reliable fire detection in areas with a wide temperature range from -10°C to +60°C
- Well suited to environments such as hotel bedrooms, warehouses and loading docks.
- Fix temperature at 58°C

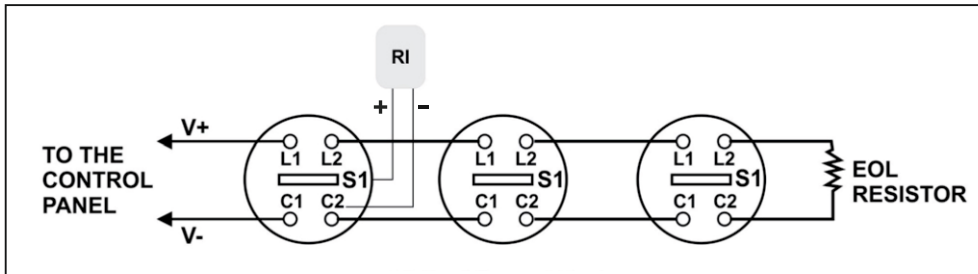
### Recommended Cabling:

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.

### Specification

Operating Zone Voltage	19-24 Vdc
Standby Current	40 µA
Alarm Current	24 mA <sub>z</sub> (without remote indicator)
Fire LED	Green. Flashes every 3s normally. RED Steadily Illuminates after alarming.
Remote Indicator Output	Directly connecting with detector.
Programming Method	Programming from DIP SWITCHES.
Wiring	Non Polarized 2-core for a Zone, Polarized 2-core for the remote detector.
Sensor	Single NTC thermistor.
Detection principle	Heat sensitive resistance.
Response Temperature	Response Temperature: 58°C.
Environment Temperature	-10°C to 60°C
Relative Humidity	5% - 95% Rh
Material of Enclosure	ABS
Dimensions	Diameter: 100 mm Diameter x 52 mm Depth.
Weight	150 g approx

## Connection and Cabling:



There are five terminals with numbers on the base.

- L1 (+) : Zone +
- C1 (-) : Zone -
- S1 (+) : REMOTE INDICATOR
- C2 (-) : REMOTE INDICATOR

## Notice:

1. The detector can not be installed under worse environment e.g. Coldest and dusty. Do not remove the dust proof cover until use the detector.
2. Make sure that there is no block within 0.5m form detector .
3. Keep the distance between detector and wall more than 0.5m.
4. Detector should be install Horizontally. If need, to be installed slantingly please keep the angle less than 45 degrees.
5. Make sure the distance between detectors be less than 3.5m. And the distance between detector and corner must be less than half of the one between detectors.
6. Detectors base be installed solid. Wire connection must be reliable.
7. Recommendations should be carried out every six months a simulated fire test, the detectors are working properly.
8. For various reason like change in environmental condition, electric disturbance and tampering, the product may not perform as expected. The user is advised to take all necessary precautions for his/her safety and protection of his/her property.

## Detector base image for wiring:

