HTD-8822-FLP

Heat Detector

Introduction

Ambetronics Heat Detectors are highly reliable & accurate thermal detection devices. They are used to sense overheat or fire in form of Temperature rise for a particular application.

The Heat Detector is a Device which is capable of detecting Rise in Ambient Temp. and providing an actuating signal i.e. an alarm to alert the system and to actuate a precautionary measure.

HTD-8822-FLP

This configuration is Micro-Controller based Heat detector, which detects heat build-up or rise in an ambient Temp. it is specially design to communicate with GDS-416. It also provides visual display indication and also dedicated Hooter cum flasher port.

Fixed Temperature Heat Detectors are factory preset to a particular temperature (according to the customer's requirement) When connected to system, if temperature rises above the temperature set point, the Heat Detector will be activated.

It must be noted that, the heat detectors may take time lag for momentanly or fast rate-of-rise of temperature. On the other hand it might get activated due to false alarm sources like friendly fire, hot air or harmless transient thermal gradient.

Features

- Provides a fast & reliable response by sensing heat build-up i.e. Overheat in Ambient Temp.
- Factory Preset to required Temp.
- Wide ranges of Temp. 40°C to 210°C
- Auto-reset Operation. Reset itself after Temp. cool down.
- Low power consumption (<3W).
- Design to communicate with GDS-416.
- User Friendly, Plug and Play operation, easy testing.
- No maintenance, No calibration.
- Visual display indication and also dedicated Hooter cum Flasher port.

Applications

- Heat Treatment Plants
- Burner / Furnace / Boilers Areas
- Oil & Gas Industries
- Ambient Monitoring
- Gas Pipeline Project Refineries
- Gas Refilling station
- Offshore Drilling & Processing Platform
- Commercial Kitchen
- Chemical & Petrochemical Plants
- Gas manifold area
- Paint Spray Booths
- Automotive Industrial
- Power & Industrial Plants

GENERAL

Detection Technique	:	Fixed Temp. Rate Compensated Thermal Heat Detector
Rated Alarm Temperature	:	40°C to 210°C as per customer requirement
Set Point	:	Factory Preset as per customer requirement
Auto-Reset	:	Reset itself after Temp. Cool down.
LEDs	:	4, L.E.D.'s. 2 for Warning, 1 for Power/ Health & 1 for Communication

PERFORMANCE

Response Time	:	Less than 60 seconds

ELECTRICAL

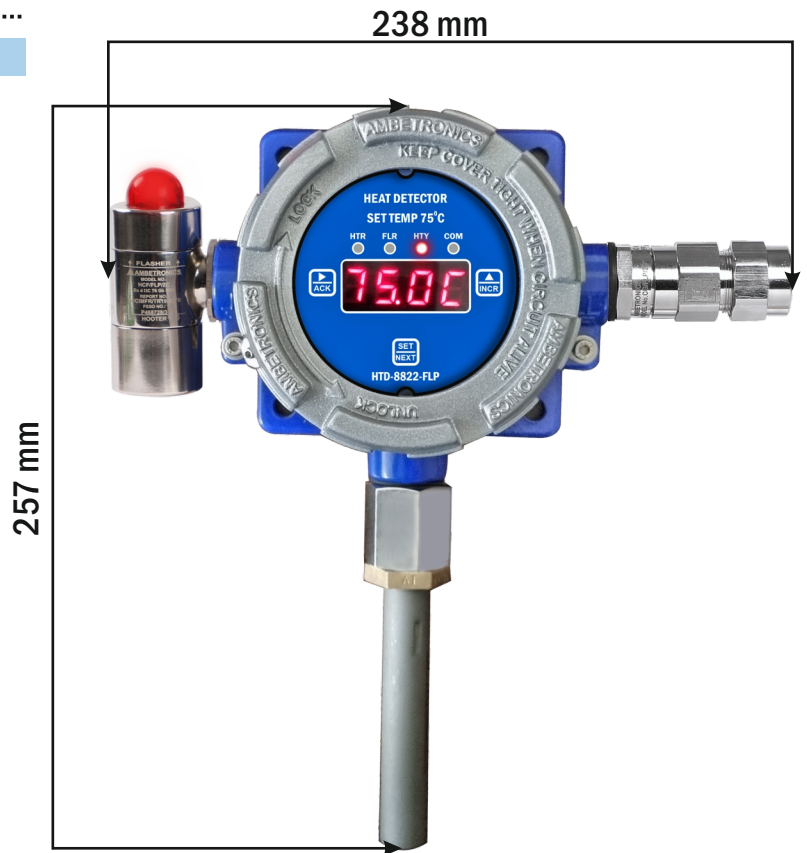|		
Supply Voltage Power	:	18 to 36 VDC, Typically 24 VDC
Power Consumption	:	Less than 3W
Wiring	:	(1.5mm^2) Flexible or Armoured Shielded Cable for Supply & O/P 2 pairs of Black-White Wires for Class A & Class B Looping (HTD-8800-FLP)

ORDERING INFORMATION

HTD → HTD
↓
A → A) MODEL NUMBER
    1) 8822
↓
B → B) ENCLOSURE
    1) JB-FLP-90 (Flameproof)
↓
C → C) ENCLOSURE MATERIAL
    1) LM6
↓
D → D) Temp. Setpoint
    1) 40˚C to 210 ˚C
↓
E → E) OUTPUT
    1) RS-485
    2) Hooter Cum Flasher
    3) None

OUTPUT SIGNAL

Potential Free NO	:	NO (Normally Open) Contact only Maximum load capacity 680 ohms.
Communication	:	RS-485 MODBUS Protocol

MECHANICAL

Sensing Shell Material	:	Stainless Steel
Enclosure	:	Aluminium LM6
Size	:	254mm(W) X 257mm(H) X 97mm(D)
Weight	:	Approx. 125g (Sensing Element) Approx. 2kg (Body)
Mounting	:	Wall / Stand & Pipe Mounting

238 mm

257 mm

HEAT DETECTOR
SET TEMP 75°C
HTR FLR HTY COM
75.0°C
HTD-8822-FLP