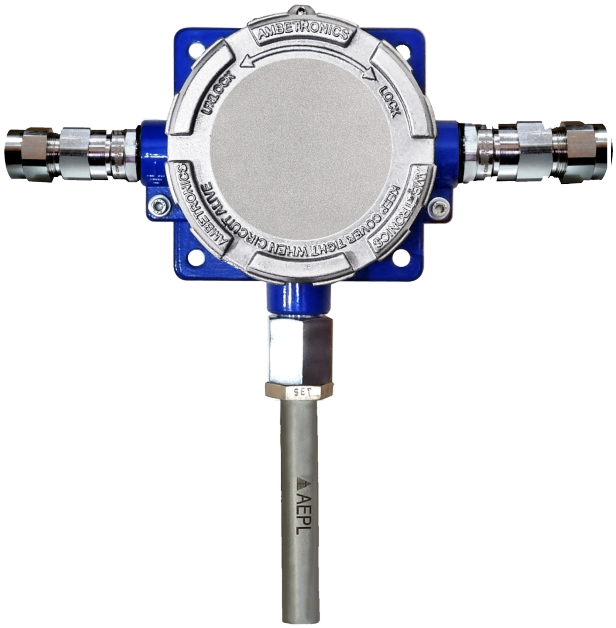
HTD-8800-FLP/HTD-8811-FLP

Fixed Probe Type Heat Detector

AMBETRONICS
AN ISO 9001:2015 CERTIFIED COMPANY



GeM Government e Marketplace

MAKE IN INDIA

Introduction :

Ambetronics Heat Detectors are highly reliable & Accurate thermal detection devices.

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

Heat Detector are further categorised in 2 configuration

1. HTD-8800-FLP 2. HTD-8811-FLP

1. HTD-8800-FLP

This configuration is not a conventional type of Heat detector, which detects fixed Temperature and Provides a Potential-Free NO contact Output. When Ambient Temp. is below set point, the contacts are OPEN, When the Ambient Temp. is above set point, the contacts are SHORT.

The contacts are Potential-Free NO (NORMALY OPEN) and possess Rating of 5A 230VAC, 2A 28VDC

or harmless transient thermal gradient.

2. HTD-8811-FLP

This configuration is Micro-Controller based Smart/ Addressable type of type of Heat detector, which detects heat and Provides a variety of outputs such as Relay Output and can be communicated via RS-485 MODBUS Protocol. It also provides visual LED indication.

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 90 ˚C
- Auto-reset Operation. Reset itself after Temp. cool down.
- Low power consumption (<3W)
- 2 Relay Contacts for Primary Alarm, Secondary Alarm
- User Friendly, Plug and Play operation, easy testing.

Applications

- Heat Treatment Plants
- Burner / Furnace / Boilers Areas
- Oil & Gas Industries
- Chemical & Petrochemical Plants
- Paint Spray Booths
- Automotive Industrial

TECHNICAL SPECIFICATIONS

GENERAL

Detection Technique	:	Fixed Temp. Rate Compensated Thermal Heat Detector
Rated Alarm Temperature	:	40°C to 90°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 Alarm, 1 for Power/ Health, 1 for Communication

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)

OUTPUT SIGNAL

Potential Free NO	:	NO (Normally Open) Contact only
contact		5A @ 230VAC
(HTD-8800-FLP)		2A @ 28VDC
Relay Contact (HTD-8811-FLP)	:	Two SPDT Relays (Two for Alarm Alert RI1, RI2) 5A @ 250VAC 5A @ 30VDC
(HTD-8811-FLP)		Maximum load capacity 680 ohms.
Communication (HTD-8811-FLP)	:	RS-485 MODBUS Protocol

MECHANICAL

Sensing Shell Material	:	Stainless Steel
Enclosure	:	Aluminium LM6, Stainless Steel SS316
Size	:	254mm(W) X 257mm(H) X 97mm(D)
Weight	:	Approx. 125g (Sensing Element) Approx. 2kg (Body)
Mounting	:	Wall / Stand & Pipe Mounting

ORDERING INFORMATION

Table 3

HTD → HTD

↓

A → A) MODEL NUMBER
1) 8800
2) 8811

↓

B → B) ENCLOSURE
1) JB-FLP-IIC (Flameproof)
2) JB-FLP-90 (Flameproof)

↓

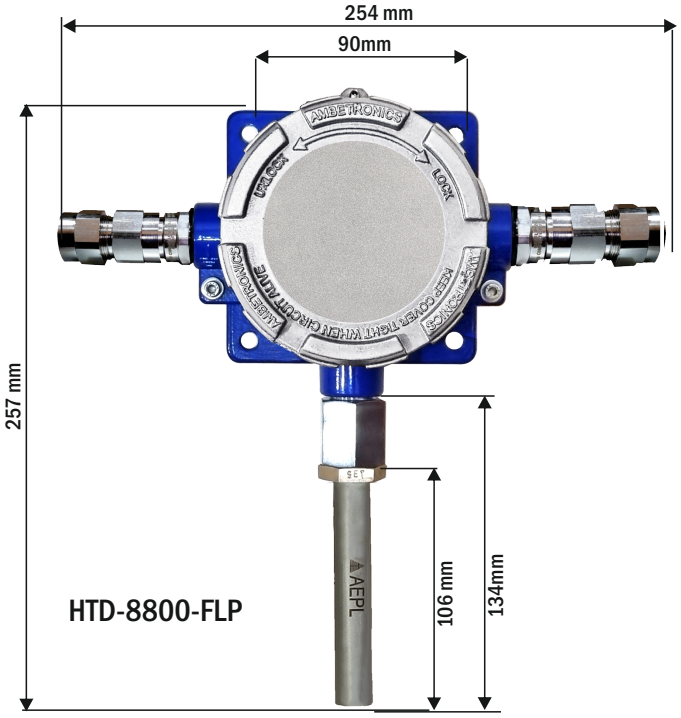
C → C) ENCLOSURE MATERIAL
1) LM6
2) SS316

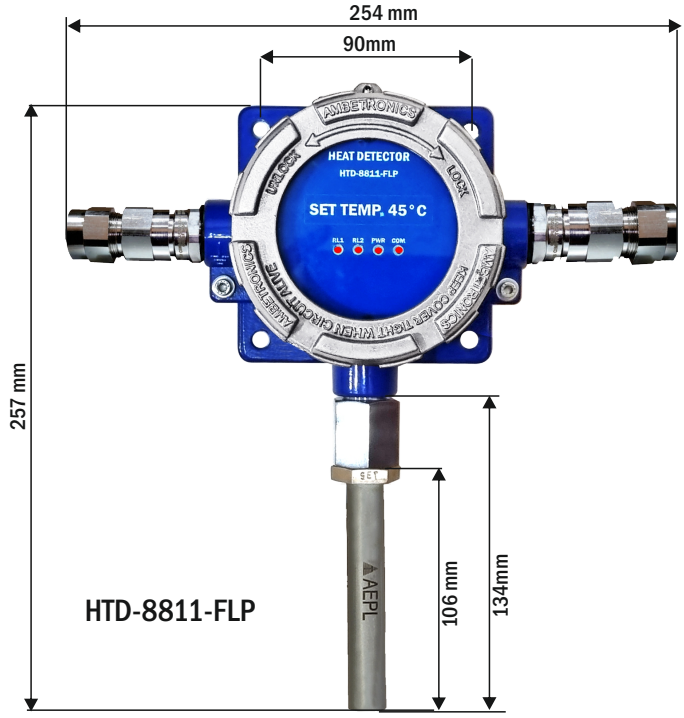
↓

D → D) Temp. Setpoint
1) 40 °C to 210 °C

↓

E → E) OUTPUT
1) Relay
2) RS-485
3) All of the above
4) None





Manufactured by :

AMBETRONICS ENGINEERS PVT. LTD.
17-B, 16, 14A, Tarun Industrial Estate, New Nagardas Road, Mogra Pada, Andheri (E.) Mumbai - 400 069, India.
+91-22-69623389
+91-22-61673021/22
+91-93207 37646
+91-91674 18106
sales8@ambetronics.com
sales11@ambetronics.com

Follow us on

Version -HTD-8800-FLP & 8811-FLP-R5-26-12-2023

Specifications subject to change without any prior notice