HD1 Range - HEAT DETECTOR



EExd, EExem & Intrinsically Safe (EExia)



Introduction

The Cooper MEDC-Hawco heat detector has been designed for use in hazardous environments. These units are suitable for fire alarm and/or suppression systems in offshore and onshore applications including paint spray booths, flammable material stores, turbine rooms, extract ductwork and other hazardous areas throughout the oil & gas, petrochemical and process industries.

Comprising a Fenwal rate-compensated detector with all-stainless steel external construction, mounted to either a type SM87 marine grade alloy enclosure (Exd version) or JB10 corrosion-free GRP enclosure (Exia, Exem/UL versions). The contact in the detector CLOSES at alarm temperature.

To select appropriate temperature setting see specification on reverse.

Authorized Distributor: GasDetectorsUSA.com Houston, TX USA 832-615-3588 sales@GasDetectorsUSA.com

Features

- Zone 0, Zone 1 and Zone 2 use.
- ATEX Approved
- EExd IIB T3/T6
- Exd IIC
- EExem II T4/T6
- EExia IIC T4/T6
- UL listed for USA and Canada
 Class I, Div 2, Groups A-D.
- GOST 'R' & 'K' certified.
- Chinese (CQST) certified.
- Brazilian (Inmetro) certified.
- IP66 & IP67.
- Certified temperature: -20°C to +125°C (Exd)*.

-20°C to +55°C (Exem/UL).

 -55° C to $+55^{\circ}$ C (Exia).

- Stainless steel probe.
- Detector temperature settings: 60°C to 385°C, (140°F to 725°F).
- Marine grade alloy or GRP enclosure.
- Optional guard.

*Model dependent.





Specification

Certification: Certified to CENELEC EN50014, EN50019, EN50028

ATEX EExd IIB Cert. No. Baseefa03ATEX0447
Ex II 2 GD EExd IIB T6 (T3 at +125°C)

Certified to EN60079-0, EN60079-1, EN61241-0, EN61241-1

ATEX Exd IIC Cert. No. Baseefa08ATEX0320 Ex II 2 GD Exd IIC ExtD A21 T85°C (-20°C to +55°C) Certified to CENELEC EN50014, EN50019, EN50028 ATEX EExem Cert. No. Baseefa03ATEX0428

Ex II 2 G EExem II T6 (-20°C to +55°C) (T4 with diodes/resistors)

Certified to CENELEC EN50014, EN50020, EN50284 ATEX EExia Cert. No. Baseefa03ATEX0427

Ex II 1 G EExia IIC T6 (-55°C to +55°C) (T4 with diodes/resistors)

UL listed for USA and Canada

- Class I, Div 2, Groups A, B, C & D. UL Listing no. E252920 - versions up to 450 $^{\circ}$ F UL Listing no. E254077- versions 600 $^{\circ}$ F to $+725\,^{\circ}$ F GOST 'R' & 'K' Certification: Exd, Exi & Exem versions.

Russian Fire Alarm approved.

Chinese Certification: CQST — Exd, Exi & Exem versions. Brazilian (Inmetro) Certification: BR-Ex d IIB T6 or T3

BR-Ex em IIB T6 or BR-Ex ia IIC T6

American Bureau of Shipping Type Approval HD1BD and HD1BI only.

Material: Detector: 316 stainless steel

Enclosures: Exd – LM25 marine grade alloy. Exia/Exem/UL – GRP (anti-static). Stainless steel cover screws.

Optional Guard: 316 stainless steel.

Finish: Detector: Sand blasted.

Enclosures: Exia/Exem/UL - Natural black or painted to customer's

specification

Certified Temp: -20°C to +125°C Exd (T3) ATEX & GOST 'R' only.

 -20°C to $+55^{\circ}\text{C}$ Exd (T6)/Exem/UL, -55°C to $+55^{\circ}\text{C}$ EExia.

Weight: Exd, 2kg. Exia/Exem/UL, 1.1kg.

Ingress Protection: IP66 & IP67.

Operation: The detector contact is normally open and CLOSES at alarm

temperature.

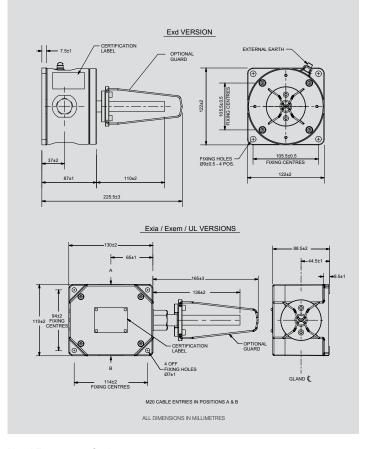
Contact Rating: 125V a.c – 5A, 125V d.c. – 0.5A, 48V d.c. – 1A, 30V – 300mA.

Entries: 2 x M20 ISO (ATEX/Exd/Exe/Exi versions)

2 x ½" NPT via adaptors (UL version) **Terminals:** 6 x 4mm² (BK6).

Resistor:Series & EOL resistor (maximum total 2) minimum value (each) 470Ω Diodes:Up to 2 off available in Exd & Exi versions – contact sales office.

Labels: Optional stainless steel tag and duty labels.



Listed Temperature Settings:

To select appropriate temperature settings, choose detector at 100°F (38°C) above maximum ambient temperature.

Temperature Setting		Tolerance		Colour Code
(°F)	(°C)	(°F)	(°C)	Detector Tip
140	60	+7/-8	±4	Black
160	71	+7/-8	±4	Black
190	88	+7/-8	±4	White
225	107	+7/-8	±4	White
275	135	±10	±6	Blue
325	163	±10	±6	Red
360	182	±10	±6	Red
450	232	±15	±8	Green
600	316	±20	±11	Orange
725	385	±25	±14	Orange

Ordering Requirements

The following code is designed to help in selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box.

