



EC - TYPE EXAMINATION CERTIFICATE

**Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

- 3 EC - Type Examination Certificate Number: **Baseefa08ATEX0320**
- 4 Equipment or Protective System: **Type HD1 Addressable Heat Detector**
- 5 Manufacturer: **Cooper MEDC Limited**
- 6 Address: **Colliery Road, Brookhill Industrial Estate, Pinxton, Nottingham, NG16 6JF**
- 7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- 8 Baseefa, Notified Body number 1180, in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.
- The examination and test results are recorded in confidential Report No. **08(C)0718**
- 9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0: 2006, EN 60079-1: 2007, EN 61241-0: 2006, EN 61241-1: 2004
except in respect of those requirements listed at item 18 of the Schedule.
- 10 If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- 11 This EC - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.
- 12 The marking of the equipment or protective system shall include the following :

Ex II 2 GD Ex d II C Ex tD A21 T85°C (T_{amb} = -20°C to + 55°C) IP6X

This certificate may only be reproduced in its entirety, without any change, schedule included.


Baseefa Customer Reference No. **0676**

Project File No. **08/0718**

This certificate is granted subject to the general terms and conditions of Baseefa. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

Baseefa

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R S SINCLAIR
DIRECTOR
On behalf of
Baseefa



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Schedule

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Certificate Number Baseefa08ATEX0320

15 Description of Equipment or Protective System

Type HD1 Addressable Heat Detector comprises an SM87 Component Enclosure, in aluminium, as certificate Baseefa09ATEX0018U and coded Ex d II C.

The cover is secured by four M6 x 12 mm long stainless steel socket headed cap screws of grade A4-80.

A central 1/2" NPT aperture is fitted with a welded and cemented, thermostatic temperature detector assembly. The detector assembly is retained with Loctite 635 or 638.

The interior of the enclosure contains a rail mounted Ziton A45E-2 Addressable Interface Module, five Weidmuller Type AKZ 1.5 rail mounted terminals and two resistors.

The total maximum heat dissipation is 6.62W.

Internal and external earth terminals are provided.

Cable entry holes are provided as specified on the certified drawings for the accommodation of flameproof cable entry devices, with or without the interposition of a flameproof thread adapter. Unused entries are to be fitted with suitable certified flameproof stopping plugs.

The cable entry devices, thread adapters and stopping plugs shall be suitable for the equipment, the cable and the conditions of use and shall be certified as Equipment (not a Component) under an EC Type Examination Certificate to Directive 94/9/EC.

When used in dust atmospheres the flameproof cable entries or stopping plugs shall be selected and installed so that the dust tight (IP6X) integrity of the enclosure is maintained.

Variation 0.1

Alternative thread sizes for the cover aperture and the corresponding thread of the detector assembly.

16 Report Number

Baseefa Certification Report 08(C)0718

17 Special Conditions for Safe Use

None

18 Essential Health and Safety Requirements

As follows, in addition to those covered by the Standards at item 9.

Principles of Integrated Explosion Safety (1.0.1) with regard to the hermetic sealing of the heat sensor is addressed by 3.6 of the report.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
465-158	1	A	30-09-08	Type HD1 Addressable Heat Detector Assembly
465-153	1	A	16-09-08	SM87 Flat Cover- IIC Details
465-164	-	A	25-03-09	Type HD1 Heat Detector IIC Version