



1 **EC - TYPE EXAMINATION CERTIFICATE**

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

3 EC - Type Examination Certificate Number: **Baseefa03ATEX0428**

4 Equipment or Protective System: **TYPE HD1 HEAT DETECTOR**

5 Manufacturer: **MEDC Ltd**

6 Address: **Colliery Road, 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 (2001) Ltd. 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. **03(C)0548 dated 18 July 2003**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN50014:1997 + amd. 1 & 2, EN50019:2000 and EN50028:1987 + amd 1**

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 2G EEx em II T6 T<sub>amb</sub> -20°C to 55°C**

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

Baseefa (2001) Ltd. Customer Reference No. **0676**

Project File No. **03/0548**

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

**Baseefa (2001) Ltd.**

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**R S SINCLAIR**

**DIRECTOR**

**On behalf of**

**Baseefa (2001) Ltd.**



**13 Schedule**

**14 Certificate Number Baseefa03ATEX0428**

**15 Description of Equipment or Protective System**

A Type HD1 Heat Detector Comprise an MEDC Type JB10 junction box with a stainless steel heat detector module fitted into a threaded cable entry hole, via a Redapt or Raxton thread reducer covered by certificates SIRA99ATEX115U and SIRA00ATEX1073U respectively, in either one of the sides or the lid of the junction box.

The heat detector comprise a welded tube fitted at one end with a glass to metal seal which provides the electrical lead through to the switching contacts contained within the detector. The outside of the glass to metal seal is encapsulated using an epoxy potting compound.

The heat detector can be used at up to the following voltage and current ratings:

Voltage (V)	Current (A)
125 ac	5
125 dc	0.5
48 dc	1
24 dc	2

**16 Report Number**

03(C)0548

**17 Special Conditions for Safe Use**

None

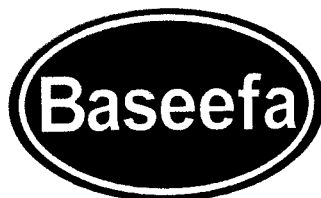
**18 Essential Health and Safety Requirements**

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

Clause	Subject	Compliance
1.3.1	Hazards arising from different ignition sources	Baseefa Report 02(C)0353 section 4.3
2.2.1.1	Prevention of ignition sources	Baseefa Report 02(C)0353 section 4.3

**19 Drawings and Documents**

Number	Issue	Date	Description
465-108	A	13/5/03	Sensor
196-187	A	15/7/03	General arrangement
465-113	A	15/7/03	Encapsulant data



**1 SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

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

**3 Supplementary EC - Type Examination Certificate Number:** Baseefa03ATEX0428/1

**4 Equipment or Protective System:** Type HD1 Heat Detector Unit

**5 Manufacturer:** Cooper MEDC Limited

**6 Address:** Colliery Road, Pinxton, Nottingham, NG16 6JF

**7** This supplementary certificate extends EC – Type Examination Certificate No. Baseefa03ATEX0428 to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This supplementary certificate shall be held with the original certificate.

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

Baseefa Customer Reference No. 0676

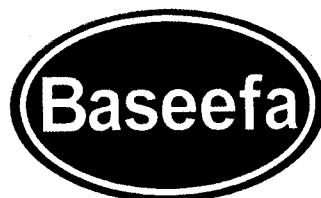
Project File No. 09/0331

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.

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Registered in England No. 4305578. Registered address as above.

**R S SINCLAIR**  
**DIRECTOR**  
On behalf of  
Baseefa



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## Schedule

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Certificate Number Baseefa03ATEX0428/1

### 15 Description of the variation to the Equipment or Protective System

#### Variation 1.1

Alternative encapsulants used in the assembly of the thermostatic temperature detector assembly.

#### Variation 1.2

Additional contents fitted to the JB10 junction box comprising a potted resistor unit as Baseefa02ATEX2105X. For this arrangement, the protection code of the apparatus is modified to EEx em II T4.

### 16 Report Number

None

### 17 Special Conditions for Safe Use

The electrical supply to the encapsulated resistor is limited to a maximum of 1.2W.

### 18 Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

### 19 Drawings and Documents

Number	Sheet	Issue	Date	Description
465-165	-	B	25-03-09	Type HD1 Heat Detector Assembly (Ex em II Version)
465-166	1	A	14-08-09	Type HD1 Heat Detector Assembly (With Potted Resistor)