



## EC - TYPE EXAMINATION CERTIFICATE

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

- EC - Type Examination Certificate Number: **Baseefa03ATEX0447**
- Equipment or Protective System: **Type HD1 Heat Detector Unit**
- Manufacturer: **MEDC LIMITED**
- Address: **Brookhill Industrial Estate, Colliery Road, Pinxton, Nottingham NG16 6JF**

This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

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)0432**

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

**EN 50014:1997 + Amendments 1 and 2**  
**EN 50018:2000 + Amendment 1**

except in respect of those requirements listed at item 18 of the Schedule.

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.

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.

The marking of the equipment or protective system shall include the following :

**⊕ II 2 G EEx d IIB 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. **03/0430**

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.

Health and Safety Laboratory Site, Harpur Hill,  
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Telephone +44 (0) 1298 28255 Fax +44 (0) 1298 28216  
e-mail [info@baseefa2001.biz](mailto:info@baseefa2001.biz) web site [www.baseefa2001.biz](http://www.baseefa2001.biz)  
Registered in England No. 4305578 at 13 Dovedale Crescent, Buxton,  
Derbyshire, SK17 9BJ

R S SINCLAIR  
DIRECTOR  
On behalf of  
Baseefa (2001) Ltd.



13

## Schedule

14

Certificate Number Baseefa03ATEX0447

### 15 Description of Equipment or Protective System

Type HD1 Heat Detector Unit, rated at 5A, 125V ac (max.)

The main enclosure comprises an SM87 Enclosure in aluminium to certificate Baseefa03ATEX0345U.

The cover is secured by four M6 x 12 mm long stainless steel socket head cap screws of grade A4-80. A central 1/2" NPT aperture is fitted with a welded and cemented, thermostatic temperature detector assembly.

The interior of the enclosure contains a Weidmuller terminal block Type BK6.

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.

#### Variation 0.1

Alternative maximum electrical ratings of 0.5A 125V dc, 2A 24V dc or 1A, 48V dc.

#### Variation 0.2

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

### 16 Report Number

Baseefa Certification Report 03(C)0430

### 17 Special Conditions for Safe Use

None

### 18 Essential Health and Safety Requirements

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.

All other relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

### 19 Drawings and Documents

Number	Sheet	Issue	Date	Description
465-106	1	A	29-04-03	Flat Cover Details
465-107	1	A	12-05-03	General Arrangement HD1 Unit
465-108	-	A	13-05-03	Detector Assembly



**SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

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

- 3 Supplementary EC - Type Examination Certificate Number: **Baseefa03ATEX0447/1**
- 4 Equipment or Protective System: **Type HD1 Heat Detector Unit**
- 5 Manufacturer: **MEDC Limited**
- 6 Address: **Colliery Road, Pinxton, Nottingham, NG16 6JF**
- 7 This supplementary certificate extends EC - Type Examination Certificate No. **Baseefa03ATEX0447** 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.

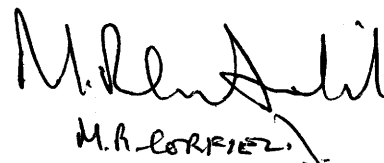
Baseefa (2001) Ltd. Customer Reference No. **0676**

Project File No. **03/0804**

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M. R. SINCLAIR

R. S SINCLAIR  
DIRECTOR  
On behalf of  
Baseefa (2001) Ltd.



13

### Schedule

14

**Certificate Number Baseefa03ATEX0447/1**

15

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

##### **Variation 1.1**

Optional addition of up to two resistors or two diodes fitted in the terminal block.

16

#### **Report Number**

None

17

#### **Special Conditions for Safe Use**

None

18

#### **Essential Health and Safety Requirements**

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

19

#### **Drawings and Documents**

<b>Number</b>	<b>Issue</b>	<b>Date</b>	<b>Description</b>
465-107	B	01-09-03	General Arrangement – Type HD1 Heat Detector Unit



**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: **Baseefa03ATEX0447/2**

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

**5** Manufacturer: **MEDC Limited**

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

**7** This supplementary certificate extends EC - Type Examination Certificate No. **Baseefa03ATEX0447** 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.

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Baseefa (2001) Ltd. Customer Reference No. 0676

Project File No. 04/0247

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## Schedule

14

Certificate Number Baseefa03ATEX0447/2

15 Description of the variation to the Equipment or Protective System

### Variation 2.1

Introduction of the option for use at an elevated ambient temperature of 125°C, with a corresponding Temperature Class of T3.

16 Report Number

Baseefa Certification Report 04(C)0247

17 Special Conditions for Safe Use

None

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	Issue	Date	Description
465-107	C	17-03-04	General Arrangement – Type HD1 Heat Detector Unit



**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: Baseefa03ATEX0447/3**

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

**5 Manufacturer: MEDC Limited**

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

**7 This supplementary certificate extends EC - Type Examination Certificate No. Baseefa03ATEX0447 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.**

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Baseefa Customer Reference No. 0676

Project File No. 04/0885

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On behalf of  
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### Schedule

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Certificate Number Baseefa03ATEX0447X/3

15 Description of the variation to the Equipment or Protective System

#### Variation 1.1

Change in the value of the internal resistors which are fitted to the terminal block.

16 Report Number

17 Special Conditions for Safe Use

None additional to those listed previously

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
465-107	1	D	9.12.04	General Arrangement – Type HD1 Heat Detector Unit





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: **Baseefa03ATEX0447**

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

5 Manufacturer: **MEDC LIMITED**

6 Address: **Brookhill Industrial Estate, 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)0430**

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

**EN 50014:1997 + Amendments 1 and 2  
EN 50018:2000 + Amendment 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 2 G EEx d IIB 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.03/0430

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**R S SINCLAIR**

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On behalf of

Baseefa (2001) Ltd.

Re-Issued 20<sup>th</sup> December 2004 for amendment



13

## Schedule

14

Certificate Number Baseefa03ATEX0447

### 15 Description of Equipment or Protective System

**Type HD1 Heat Detector Unit, rated at 5A, 125V ac (max.)**

The main enclosure comprises an SM87 Enclosure in aluminium to certificate Baseefa03ATEX0345U.

The cover is secured by four M6 x 12 mm long stainless steel socket head cap screws of grade A4-80. A central ½" NPT aperture is fitted with a welded and cemented, thermostatic temperature detector assembly.

The interior of the enclosure contains a Weidmuller terminal block Type BK6.

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.

#### Variation 0.1

Alternative maximum electrical ratings of 0.5A 125V dc, 2A 24V dc or 1A, 48V dc.

#### Variation 0.2

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

### 16 Report Number

Baseefa Certification Report 03(C)0430

### 17 Special Conditions for Safe Use

None

### 18 Essential Health and Safety Requirements

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.

All other relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

### 19 Drawings and Documents

Number	Sheet	Issue	Date	Description
465-106	1	A	29-04-03	Flat Cover Details
465-107	1	A	12-05-03	General Arrangement HD1 Unit
465-108	-	A	13-05-03	Detector Assembly



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: **Baseefa03ATEX0447/4**

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

5 Manufacturer: **MEDC Limited**

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

7 This supplementary certificate extends EC - Type Examination Certificate No. Baseefa03ATEX0447 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.

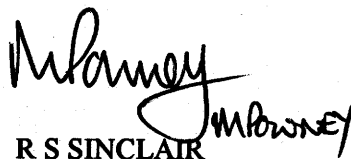
Baseefa Customer Reference No. 0676

Project File No. 06/0482

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.

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Registered in England No. 4305578 at the above address

  
R S SINCLAIR  
DIRECTOR  
On behalf of  
Baseefa (2001) Ltd.

Re-issued 26<sup>th</sup> November 2008 to replace original



## Schedule

Certificate Number Baseefa03ATEX0447/4

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

#### Variation 4.1

An extension to the scope of this certificate to include combustible dust atmospheres by virtue of compliance with EN50281-1-1: 1998.

The certification marking is to be amended as follows:-

⊕ II 2 GD EEx d IIB T85°C (T<sub>amb</sub> = -20°C to +55°C)  
T200°C (T<sub>amb</sub> = -20°C to +125°C)

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.

### Report Number

Baseefa Certification Report No. 06(C)0482

### Special Conditions for Safe Use

None

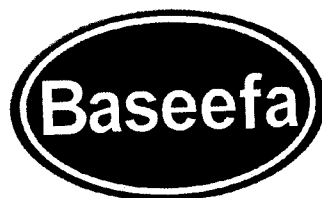
### Essential Health and Safety Requirements

The requirements for dust atmospheres (i.e. Category 2D) are now deemed to be met by virtue of compliance with EN 50281-1-1: 1998.

### Drawings and Documents

Number	Issue	Date	Description
465-107	E	25.07.06	General Arrangement – Type HD1 Heat Detector Unit

Certificate Number  
Baseefa03ATEX0447/5



Issued 23 September 2009  
Page 1 of 2

## 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: **Baseefa03ATEX0447/5**

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. Baseefa03ATEX0447 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

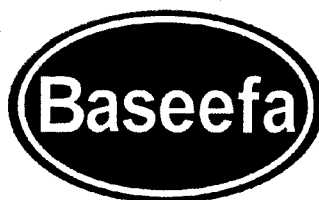
Project File No. 09/0330

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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Baseefa is a trading name of Baseefa Ltd  
Registered in England No. 4305578. Registered address as above.

R S SINCLAIR  
DIRECTOR  
On behalf of  
Baseefa



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## Schedule

14

Certificate Number Baseefa03ATEX0447/5

15

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

#### Variation 5.1

To permit alternative encapsulants to be used in the assembly of the thermostatic temperature detector assembly.

The maximum service temperature, using these encapsulants, is +125°C.

The certification marking remains as:-

Ⓔ II 2 GD EEx d IIB T85°C ( $T_{amb} = -20^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$ )

T200°C ( $T_{amb} = -20^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$ )

16

### Report Number

None

17

### Special Conditions for Safe Use

None

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
465-108	-	B	25-03-09	Type HD1 Heat Detector Assembly



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: **Baseefa03ATEX0447/6**

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. Baseefa03ATEX0447 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.

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Baseefa Customer Reference No. **0676**

Project File No. **10/0329**

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**Baseefa**

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



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**Schedule**

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**Certificate Number Baseefa03ATEX0447/6**

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

**Variation 6.1**

Alternative RIKO terminal block, Type 2-402-2 or 2-403-3 or 2-424; the maximum number of terminals is six.

16 **Report Number**

None

17 **Special Conditions for Safe Use**

None

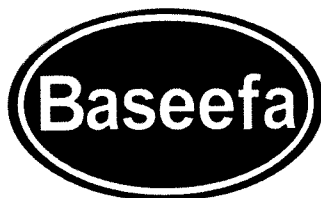
18 **Essential Health and Safety Requirements**

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

19 **Drawings and Documents**

Number	Sheet	Issue	Date	Description
465-107	-	F	29.03.10	Type HD1 Heat Detector Assembly





**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: **Baseefa03ATEX0447/7**

**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. Baseefa03ATEX0447 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.

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Baseefa Customer Reference No. **0676**

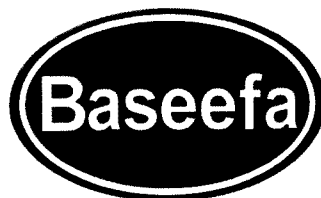
Project File No. **10/1044**

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



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## Schedule

13

14

Certificate Number Baseefa03ATEX0447/7

15 Description of the variation to the Equipment or Protective System

Variation 7.1

To permit a change in the minimum resistor wattage from 2.5W to 0.6W.

16 Report Number

None.

17 Special Conditions for Safe Use

None.

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
465-107	-	G	13.12.10	Type HD1 Heat Detector Assembly