

Certificate Number  
Baseefa03ATEX0447



Issued 11 July 2003  
Page 1 of 2

**EC - TYPE EXAMINATION CERTIFICATE**

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

- 1
- 2
- 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)0432**
- 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 :

⊕ 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.**

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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 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: **Baseefa03ATEX0447/1**

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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**Baseefa (2001) Ltd.**

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### Schedule

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Certificate Number Baseefa03ATEX0447/1

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#### 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.

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#### Report Number

None

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#### Special Conditions for Safe Use

None

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#### Essential Health and Safety Requirements

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

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#### Drawings and Documents

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