



EC-TYPE EXAMINATION CERTIFICATE

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

EC-Type Examination Certificate Number : **BAS00ATEX2204X**

Equipment or Protective System: **XB10 XENON BEACON**

Manufacturer: **MEDC LIMITED**

Address: **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.

The Electrical Equipment Certification Service, notified body number 600 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 N°

98(C)0266 dated 12 February 2001

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

EN 50014: 1997 + Amds 1 & 2

EN 50018: 2000

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. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment or protective system.

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

Ex II 2G EEx d IIB T4 (see schedule)

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

File No: **EECS 0676/01/283**

This certificate is granted subject to the general conditions of the Electrical Equipment Certification Service. It does not necessarily indicate that the apparatus may be used in particular industries or circumstances.



Electrical Equipment Certification Service
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I M CLEARE
DIRECTOR
14 February 2001



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Schedule

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Description of Equipment or Protective System

The Type XB10 Xenon Beacon may be rated from 12V d.c. to 254V a.c. The beacons may be fitted with either a 15 joules or 10 joules flash unit, with a maximum power dissipation of 45 watts or 30 watts respectively.

The flameproof enclosure comprises a cylindrical body shell and a wellglass cover, both manufactured in glass reinforced polyester. The cover is secured to the body shell by a threaded joint which is locked with an M4 grub screw. In addition the wellglass cemented into the centre of the cover is protected from impact by a wire guard arrangement.

The interior of the enclosure comprises a printed circuit board (PCB), locating in slots in the enclosure wall. The PCB incorporates a xenon tube, control electronics and an 8 way terminal block rated up to 25A.

Up to two threaded cable entries are provided in the rear wall of the enclosure for the accommodation of suitable BASEEFA certified flameproof cable entry devices, with or without the interposition of a suitable BASEEFA certified flameproof thread adapter. Unused entries are to be fitted with suitable BASEEFA certified flameproof stopping plugs. Suitable flameproof cable entry devices, thread adapters and stopping plugs certified as Equipment (not a Component) under an EC Type Examination Certificate to Directive 94/9/EC may also be used in the manner indicated above.

The entries pass through a mounting bracket which is fixed to the rear of the unit by three M5 x 12mm countersunk screws and an M5 external earth stud. Internal earthing facilities are provided along side the internal component connections.

This apparatus is to be installed and used in accordance with the appropriate codes of practice and the manufacturer's instructions.

This certification is to European Directive 94/9/EC only, Functional performance and compliance with other European directives is the responsibility of the equipment manufacturer and/or the user as appropriate.

MARKING SUMMARY

The following table is a summary of the permitted power rating, ambient temperature and Temperature Class combinations permitted for each type of unit:-

| Model | Flash Energy | Temperature Class & Ambient Temperature |
|-------|--------------|---|
| XB10 | 15 J | T4 (T _{amb} = -55°C to +40°C) |
| | 10 J | T4 (T _{amb} = -55°C to +55°C) |



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Report No.

BASEEFA Certification Report No.98(C)0266

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Special Conditions For Safe Use

1. The mating thread of any cable entry device used with this apparatus must exceed 12mm in length.
2. Painting and surface finishes, other than those applied by the manufacturer, are not permitted

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Essential Health and Safety Requirements

| Essential Health and Safety Requirements not covered by Standards listed at (9) | | |
|---|---|--|
| Clause | Subject | Compliance |
| 1.0.2 | Analysis of possible operating faults | BASEEFA Report No. 98(C)0266 |
| 1.0.3 | Special checking and maintenance conditions | No special requirements |
| 1.2.2 | Components for incorporation or replacement | Manufacturer's Instructions |
| 1.2.4 | Dust deposits | Certification for gas atmospheres only |
| 1.2.5 | Additional means of protection | Not applicable |
| 1.2.7 | Protection against other hazards | BASEEFA Report No. 98(C)0266 |
| 2.0. | Category M | Not applicable |
| 2.1. | Category 1 | Not applicable |
| 2.2.1 | Category 2G | BASEEFA Report No. 98(C)0266 |
| 2.2.2 | Category 2D | Not applicable |
| 2.3. | Category 3 | Not applicable |
| 3. | Requirements for protective systems | Not applicable |

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DRAWINGS

| <u>Number</u> | <u>Issue</u> | <u>Date</u> | <u>Description</u> |
|---------------|--------------|-------------|---|
| *228-101 | A | 13/10/00 | General Arrangement, Type XB10 Xenon Beacon |
| 228-144 | A | 16/11/00 | Label Detail, Type XB10 Xenon Beacon |

* Drawing common to Certificate No. BAS 00ATEX2226X

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BASEEFA List Keywords

2WELLUM



- 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 **See Schedule**
Number:
- 4 Equipment or protective system: **See Schedule**
- 5 Manufacturer: **MEDC**
- 6 Address: **Colliery Road, Pinxton, Nottingham, NG16 6JF**
- 7 This supplementary certificate extends the EC - Type Examination Certificates listed in the Schedule to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedules of the said Certificates but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

A copy of this Supplementary Certificate shall be attached to each of the original Certificates.

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

Baseefa Customer Reference No. 0676

Project File No. 07/0181

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

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Baseefa is a trading name of Baseefa (2001) Ltd
Registered in England No. 4305578 at the above address

A handwritten signature in black ink, appearing to read "R S Sinclair".
R S SINCLAIR
DIRECTOR
On behalf of
Baseefa (2001) Ltd.



Schedule

Description of the variation to the Equipment or Protective System

To permit the use of epoxy or acrylic paint processes on the products detailed below.

| Certificate No. | Supplement No. | Equipment Type |
|--------------------|----------------|------------------------------|
| BAS99ATEX2195X | 5 | XBII |
| BAS99ATEX2196 | 5 | XB12,FB12,TH12,FL12, |
| BAS00ATEX2031 | 2 | XB9 |
| BAS00ATEX2097X | 9 | DB3, DB3L, DB4, DB4L |
| BAS00ATEX2098X | 9 | DB3E, DB3E, DB4, DB4E |
| BAS00ATEX2204X | 1 | XB10 |
| BAS00ATEX2226X | 1 | XB10E |
| BAS02ATEX2086X | 5 | DB10 |
| BAS02ATEX2105X | 4 | BGE, PBE |
| Baseefa03ATEX0084X | 2 | BG1, PB1 |
| Baseefa04ATEX0009X | 3 | XB15, FB15, FL15, LD15, TH15 |
| Baseefa04ATEX0166X | 2 | DB16 IIB |
| Baseefa04ATEX0167X | 2 | DB16 IIC |
| Baseefa05ATEX0198X | 1 | DB20 IIB |
| Baseefa05ATEX0199X | 1 | DB20 IIC |

Report No.

None

Special Conditions for Safe Use

None additional to those listed previously

Essential Health and Safety Requirements

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

Drawings and Documents

| Number | Issue | Date | Description |
|---------|-------|----------|--|
| 122-808 | 1 | 05/03/07 | Addition of Optional Acrylic Paint to Products Listed. |



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 **See Schedule**
Number:

4 Equipment or protective system: **See Schedule**

5 Manufacturer: **MEDC Limited**

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

7 This supplementary certificate extends the EC - Type Examination Certificates listed in the Schedule to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedules of the said Certificates but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

A copy of this Supplementary Certificate shall be attached to each of the original Certificates.

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Baseefa Customer Reference No. 0676

Project File No. 08/0067

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R S SINCLAIR

DIRECTOR
On behalf of
Baseefa (2001) Ltd.

Baseefa

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Baseefa is a trading name of Baseefa (2001) Ltd
Registered in England No. 4305578 at the above address



Schedule

Description of the variation to the Equipment or Protective System

Alternative certification label wording for the units listed below and as on the scheduled drawings.

| Certificate No. | Supplement No. | Equipment Type |
|--------------------|----------------|--|
| BAS00ATEX2031 | 3 | Type XB9 Xenon Beacon |
| BAS00ATEX2097X | 10 | Type DB3 Sounder and DB4 Speaker Units |
| BAS00ATEX2204X | 2 | Type XB10 Beacon |
| Baseefa02ATEX0224X | 6 | Type XB4 Xenon Beacon |
| BAS02ATEX2086X | 6 | Type DB10 Loudspeaker Units |
| Baseefa03ATEX0222 | 4 | Type SM87 HXB & SM87 LED Beacons |
| Baseefa04ATEX0166X | 3 | Type DB16 IIB Speaker Unit |

Report No.

None

Special Conditions for Safe Use

None additional to those listed previously

Essential Health and Safety Requirements

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

Drawings and Documents

| Number | Sheet | Issue | Date | Description |
|---------|-------|-------|----------|-----------------------------|
| 227-173 | - | A | 28-01-08 | Type XB9 Xenon Beacon |
| 219-833 | - | A | 28-01-08 | Type DB3 Sounder Units |
| 199-519 | - | A | 28-01-08 | Type DB4 Speaker Units |
| 228-210 | - | A | 28-01-08 | Type XB10 Beacon |
| 188-625 | - | A | 28-01-08 | Type XB4 Xenon Beacon |
| 253-154 | - | A | 07-01-08 | Type DB10 Loudspeaker Units |
| 562-661 | - | A | 28-01-08 | Type SM87 HXB Xenon Beacon |
| 562-662 | - | A | 28-01-08 | Type SM87 LED Beacon |
| 286-145 | - | A | 07/01/08 | Type DB16 IIB Speaker Unit |