



**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: **Baseefa04ATEX0009X**
- 4 Equipment or Protective System: **TYPE XB15 XENON BEACON**
- 5 Manufacturer: **MEDC Limited**
- 6 Address: **Colliery Road, Pinxton, Nottinghamshire, 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)0483
- 9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
**EN 50014:1997 + Amendments 1 & 2**  
**EN 50018: 2000 + Amendment 1**  
**EN 50281-1-1: 1998 + 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 GD EEx d IIC T\* (\* see schedule)**

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

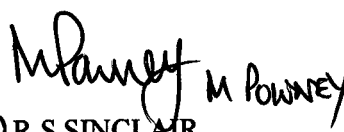
Baseefa (2001) Ltd. Customer Reference No. 0676

Project File No. 03/0483

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.



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## Schedule

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Certificate Number Baseefa04ATEX0009X

### 15 Description of Equipment or Protective System

The **Type XB15 Xenon Beacon** may be rated from 12V dc. to 254V ac. with a maximum power dissipation of 30 watts and comprises a cylindrical enclosure, manufactured in glass reinforced polyester, complete with a borosilicate wellglass cemented into the centre of the cover. The wellglass may be protected by an optional guard arrangement fixed to the cover. The cover is mated to the enclosure base by a threaded joint which is then locked by a M4 x 10mm long steel grub screw.

Up to three M20 or M25 (or NPT equivalent) cable entry's are provided in the side wall of the enclosure. Internal earthing facilities are provided along side the internal component connections.

The interior of the enclosure comprises a printed circuit board (PCB) incorporating a xenon tube and control electronics, mounted on pillars from the base. In addition a terminal block with up to 12 ways and rated up to 25A is mounted in the base of the enclosure.

#### Variation 0.1

An alternative interior comprising a 60W or 100W filament lamp, mounted a ceramic lamp holder which is raised on pillars from the base, and a terminal block with up to 12 ways and rated up to 25A, mounted in the base of the enclosure.

In this form the unit is re-designated a **Type FB15 Beacon**.

The above units may have the following temperature class/ambient combinations :-

Beacon Type	Lamp Rating	Temperature Class
XB15	30W	T85°C (T <sub>amb</sub> = -55°C to +55°C)
		T100°C (T <sub>amb</sub> = -55°C to +70°C)
FB15	60W	T135°C (T <sub>amb</sub> = -55°C to +55°C)
	100W	T200°C (T <sub>amb</sub> = -55°C to +70°C)
		T200°C (T <sub>amb</sub> = -55°C to +40°C)

### 16 Report Number

Baseefa Certification Report 03(C)0483

### 17 Special Conditions for Safe Use

1. Painting and surface finishes, other than those applied by the manufacturer, are not permitted
2. In order to maintain the dust tight integrity of the enclosures (IP6X), the threads of cable entry devices and stopping plugs shall be sealed in accordance with the applicable code of practice for flameproof installation.

### 18 Essential Health and Safety Requirements

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

### 19 Drawings and Documents

Number	Issue	Date	Description
276-142	A	29/04/03	General Arrangement, Type XB15 & FB15 Beacons



**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:** Baseefa04ATEX0009X/1

**4 Equipment or Protective System:** Type XB15 Xenon Beacon

**5 Manufacturer:** MEDC Limited

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

**7 This supplementary certificate extends EC - Type Examination Certificate No. Baseefa04ATEX0009X 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. 05/0245 & 05/0267

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## Schedule

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Certificate Number Baseefa04ATEX0009X/1

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

#### Variation 1.1

Replacement of the xenon lamp by an 18W fluorescent lamp and associated control gear to form a Type FL15 Beacon rated up to 48V d.c. or up to 250V a.c.

#### Variation 1.2

Replacement of the xenon lamp by six banks of 5 LEDs and associated control gear to form a Type LD15 Beacon rated up to 48V d.c. or up to 254V a.c.

The full range of beacons and ratings are listed below.

Beacon Type	Lamp Rating	Temperature Class
XB15	30W	T85°C (T <sub>amb</sub> = -55°C to +40°C)
		T100°C (T <sub>amb</sub> = -55°C to +55°C)
		T135°C (T <sub>amb</sub> = -55°C to +70°C)
FB15	60W	T135°C (T <sub>amb</sub> = -55°C to +55°C)
		T200°C (T <sub>amb</sub> = -55°C to +70°C)
	100W	T200°C (T <sub>amb</sub> = -55°C to +40°C)
FL15	18W	T95°C (T <sub>amb</sub> = -55°C to +40°C)
		T105°C (T <sub>amb</sub> = -55°C to +50°C)
		T110°C (T <sub>amb</sub> = -55°C to +55°C)
LD15	30W	T95°C (T <sub>amb</sub> = -55°C to +40°C)
		T105°C (T <sub>amb</sub> = -55°C to +50°C)
		T110°C (T <sub>amb</sub> = -55°C to +55°C)

### 16 Report Number

Baseefa Certification Report 05(C)0245

### 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
276-196	1	A	04.04.05	General Arrangement, Type FL15 Beacon
276-222	1	A	13.04.05	General Arrangement, Type LD15 Beacon



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: **Baseefa04ATEX0009X/2**

4 Equipment or Protective System: **Type XB15 Xenon Beacon**

5 Manufacturer: **MEDC Limited**

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

7 This supplementary certificate extends EC - Type Examination Certificate No. **Baseefa04ATEX0009X** 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. **06/0261 & 06/0354**

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## Schedule

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Certificate Number Baseefa04ATEX0009X/2

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

#### Variation 2.1

An alternative interior comprising a tungsten halogen lamp with a rotating screen assembly and control electronics, all attached to a mounting plate which is raised on pillars from the base. A terminal block is mounted in the base of the enclosure for the connection of incoming cables.

In this form the unit is re-designated a Type TH15 Beacon and has a maximum internal power dissipation of 40W. This unit may have the following temperature class/ambient combinations:-

Beacon Type	Lamp Rating	Temperature Class
TH15	35W	T85°C (T <sub>amb</sub> = -55°C to +40°C)
		T100°C (T <sub>amb</sub> = -55°C to +55°C)
		T115°C (T <sub>amb</sub> = -55°C to +70°C)

#### Variation 2.2

An alternative type designation of SB9 for the XB15 unit only.

#### Variation 2.3

Alternative label detail.

### 16 Report Number

Baseefa Certification Report GB/BAS/ExTR06.0099/00

### 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	Issue	Date	Description
276-142	B	27/04/06	Type XB15 & FB15 Beacons
276-237	A	21/03/06	Type TH15 Rotating Beacon
276-260	A	27/04/06	Alternative Label



- 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.

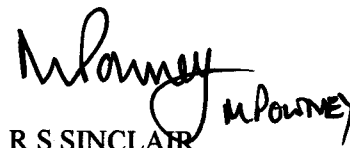
Baseefa Customer Reference No. 0676

Project File No. 07/0181

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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.