



EC-TYPE EXAMINATION CERTIFICATE

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

EC-Type Examination Certificate Number : **BAS00ATEX2226X**

Equipment or Protective System: **TYPE XB10E 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 EN 50019: 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:-

 **II 2G EEx de 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.



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I M CLEARE
DIRECTOR
14 February 2001



13

Schedule

14

EC-TYPE EXAMINATION CERTIFICATE N° BAS00ATEX2226X

15

Description of Equipment or Protective System

The Type XB10E 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 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 flameproof 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.

An increased safety terminal box is fitted to the rear of the unit by 4 off M5 x 16mm stainless steel socket head cap screws. The top of the terminal box is closed by a flat cover, complete with a sealing ring, which is secured by 2 off M5 x 16mm stainless steel socket head cap screws.

This terminal box incorporates a Klippon Type BK6 Terminal Block to BAS 98ATEX3084U coded Ex II 2G EEx e II for the connection of the supply cables, and a Bartec Type 07-9101-F04F Line Bushing to PTB 97ATEX1047U coded Ex II 2G EEx d II to connect to the PCB inside the flameproof enclosure.

Internal and external earthing facilities are provided by a stud through the terminal box wall.

Up to three threaded cable entries are provided in the side wall of the terminal box for the accommodation of suitable cable entry devices that adequately clamp the cable and are capable of withstanding a 7 joule impact and maintaining the ingress protection of the enclosure. Any unused entries are to be fitted with a suitable stopping plug capable of maintaining the ingress protection of the enclosure.

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:-



13

Schedule

14

EC-TYPE EXAMINATION CERTIFICATE N° BAS00ATEX2226X

Model	Flash Energy	Temperature Class & Ambient Temperature
XB10E	15 J	T4 (T _{amb} = -50°C to +40°C)
	10 J	T4 (T _{amb} = -50°C to +45°C)

16

Report No.

BASEEFA Certification Report No. 98(C)0266

17

Special Conditions for Safe Use

1. Not more than one single or multiple strand lead shall be connected into either side of any terminal, unless multiple conductors have been joined in a suitable manner, e.g. two conductors into a single insulated crimped boot lace ferrule.
2. Leads connected to the terminals shall be insulated for the appropriate voltage and this insulation shall extend to within 1mm of the metal of the terminal throat.
3. All terminal screws, used and unused, shall be tightened down.
4. Minimum creepage and clearance distances between the terminals and adjacent conductive parts (including cable entry devices) must be at least 5mm.
5. Painting and surface finishes, other than those applied by the manufacturer, are not permitted.

18

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



13

Schedule

14

EC-TYPE EXAMINATION CERTIFICATE N° BAS00ATEX2226X

19

DRAWINGS

Number	Issue	Date	Description
*228-101	A	13.10.00	General Arrangement, Type XB10 Xenon Beacon
228-102	A	13.10.00	EEx e Terminal Box
228-147	A	16.11.00	XB10E Certification Label

* Drawing common to Certificate No. BAS 00ATEX2204X

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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 Number: **BAS00ATEX2226X/1**

4 Equipment or Protective System: **TYPE XB10E XENON BEACON**

5 Manufacturer: **MEDC Limited**

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

7 This supplementary certificate extends EC – Type Examination Certificate No. BAS00ATEX2226X 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.

The original certificate was issued by The Electrical Equipment Certification Service, Notified Body Number 0600, which retains responsibility for its original documentation. Baseefa (2001) Ltd., Notified Body Number 1180, is responsible only for the additional work relating to this supplementary certificate and any other supplementary certificate it has issued.

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

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

Project File No. **03/0142**

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.



Schedule

13 Description of the variation to the Equipment or Protective System

Variation 2.1

Alternative certification option for the Type BK6 Terminals. The terminals may now be to either EC Type Examination Certificate No. Sira 01ATEX3247U, coded Ex II 2GD EEx e II, or BAS98ATEX3084U as originally specified.

14 Report Number

None

15 Special Conditions for Safe Use

None additional to those listed previously

16 Essential Health and Safety Requirements

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

17 Drawings and Documents

Number	Issue	Date	Description
228-102	B	05/02/03	General Arrangement, EEx e Terminal Chamber