



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
Health and Safety Executive
Harpur Hill, Buxton, Derbyshire, SK17 9JN, United Kingdom
Tel: +44(0)1298 28000 Fax: +44(0)1298 28244
internet: www.baseefa.com e-mail: baseefa.info.eecs@hsl.gov.uk



I M CLEARE
DIRECTOR
14 February 2001



13

Schedule

14

EC-TYPE EXAMINATION CERTIFICATE N° BAS00ATEX2204X

15

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)



13

Schedule

14

EC-TYPE EXAMINATION CERTIFICATE N° BAS00ATEX2204X

16

Report No.

BASEEFA Certification Report No.98(C)0266

17

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

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

19

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

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

BASEEFA List Keywords

2WELLUM