



1 **EC - TYPE EXAMINATION CERTIFICATE**

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

3 EC - Type Examination Certificate Number: **Baseefa03ATEX0222**
4 Equipment or Protective System: **SM87 BEACONS**
5 Manufacturer: **MEDC LIMITED**
6 Address: **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)0265

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
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 :

(X) 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. 03/0265

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.

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R S SINCLAIR
DIRECTOR
On behalf of
Baseefa (2001) Ltd.

13

Schedule

14

Certificate Number Baseefa03ATEX0222

15 **Description of Equipment or Protective System**

The Type SM87 Beacons each comprise a cylindrical enclosure on a square base with a domed glass cover secured by 4 off M6 x 12mm long socket head cap screws of grade A4-80 stainless steel. The base and cover ring may be manufactured from either aluminium or stainless steel.

The interior of the units may contain one of the following lamp types and the associated control gear, each with different designations and thermal characteristics as shown below :-

TYPE SM87 ---	Lamp Type	Voltage (V)	Watts (W)	Temperature Classification T* (T _{amb} = -55°C to + °C)			
				+40°C	+55°C	+70°C	+85°C
LU3	Filament	240 ac	48	T135°C	T200°C	N/A	
LU1	Fluorescent	254 ac	10	T100°C	T135°C	N/A	
		240 ac		5	T85°C		
		110/120 ac	T85°C				
		12, 24, 48 dc					
HXB	Xenon	110, 240, 254 ac	11	T85°C	T135°C	T135°C	N/A
		12, 24, 30, 48 dc					
XBT/A	Xenon (Electronics unit)	110, 240, 254 ac 12, 24, 30, 48 dc	11*	T85°C	T135°C	N/A	
XBT/B	Xenon (Lamp unit)	N/A				N/A	
LED	LED	24, 48 dc	4	T85°C	T135°C	N/A	
	LED (Blue)		5.6				

* Note XBT units A & B are intended to be used together in pairs and are rated accordingly

The enclosure is provided with internal and external earth connection facilities.

Up to 4 cable entry holes threaded M20 to M25 (or NPT & Pg equivalents) are provided for the accommodation of suitable BASEEFA certified flameproof IIC cable entry devices, with or without the interposition of a suitable BASEEFA certified flameproof IIC thread adapter. Unused entries are to be fitted with suitable BASEEFA certified flameproof IIC stopping plugs.

Suitable flameproof IIC 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 specified above.

If the unit is intended for use in a dust atmosphere these devices must be sealed in accordance with the relevant codes of practice to ensure a dust tight seal.

In addition, these units may be supplied by the manufacturer in an assembly of up to five interconnected enclosures.

16 **Report Number**

Baseefa Certification Report No. 03(C)0265



17 Special Conditions for Safe Use

None

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
562-131 Sheets 1 to 3	A	26-03-03	General Arrangement, SM87 Beacons
562-130	A	28-02-03	Enclosure, Earth & Seal Detail
562-128	A	25-03-03	Cover, Machining Detail, Stainless Steel
562-129	A	25-03-03	Enclosure & Cover Detail, Aluminium
562-127	A	25-03-03	Enclosure, Machining Detail, Stainless Steel
562-132	A	26-03-03	Circuit Diagram, SM87 HXB 240V, High Power
562-133	A	26-03-03	Circuit Diagram, SM87 HXB 240V
562-134	A	23-03-03	Circuit Diagram, SM87 HXB 110/120V
562-135	A	27-03-03	Circuit Diagram, SM87 HXB 254V
562-136	A	27-03-03	Circuit Diagram, SM87 HXB 24V
562-137	A	26-03-03	Circuit Diagram, SM87 HXB 48V
562-138	A	26-03-03	Circuit Diagram, Relay/Telephone Interface
562-139	A	26-03-03	Circuit Diagram, SM87 Fluorescent 12, 24 & 48V
562-140	A	26-03-03	Circuit Diagram, SM87 LED 24V
562-141	A	26-03-03	Circuit Diagram, SM87 LED 48V
562-142	A	26-03-03	Circuit Diagram, SM87 LED (Blue) 24 & 48V
562-143	A	26-03-03	Circuit Diagram, SM87 HXB 12V
562-144	A	26-03-03	Circuit Diagram, SM87 HXB 30V



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: **Baseefa03ATEX0222/1**

4 Equipment or Protective System: **SM87 BEACONS**

5 Manufacturer: **MEDC Limited**

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

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa03ATEX0222 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. 05/0662

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.

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Schedule

14

Certificate Number Baseefa03ATEX0222/1

15

Description of the variation to the Equipment or Protective System

Variation 1.1

Increased dimensional tolerance for the wellglass cover.

16

Report Number

None

17

Special Conditions for Safe Use

None

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
562-131 Sheets 1 to 3	B	06-10-05	General Arrangement, SM87 Beacons



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3 Supplementary EC - Type Examination Certificate Number: **Baseefa03ATEX0222/2**

4 Equipment or Protective System: **SM87 BEACONS**

5 Manufacturer: **MEDC**

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

7 This supplementary certificate extends EC - Type Examination Certificate No. Baseefa03ATEX0222 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.

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Baseefa Customer Reference No. 0676

Project File No. 07/0040

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Schedule

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Certificate Number Baseefa03ATEX0222/2

15

Description of the variation to the Equipment or Protective System

Variation 2.1

Increase in the maximum dissipated wattage of the LUI fluorescent fitting rated at 110V to 120V from 5W to 10W

16

Report Number

None

17

Special Conditions for Safe Use

None

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
562-131 Sheets 1 to 3	C	11-01-07	General Arrangement, SM87 Beacons
562-573	A	11-01-07	AC Fluorescent Ballast Circuit Diagram



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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.

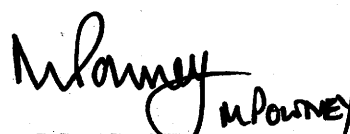
Baseefa Customer Reference No. 0676

Project File No. 07/0181

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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.



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3 Supplementary EC - Type Examination Certificate Number: **Baseefa03ATEX0222/3**

4 Equipment or Protective System: **SM87 BEACONS**

5 Manufacturer: **MEDC**

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

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa03ATEX0222 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.

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Baseefa Customer Reference No. 0676

Project File No. 07/0351

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Schedule

14

Certificate Number Baseefa03ATEX0222/3

15

Description of the variation to the Equipment or Protective System

Variation 3.1

Increase in the depth of label fixing holes.

16

Report Number

None

17

Special Conditions for Safe Use

None

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
562-129	B	24-04-07	Enclosure/Cover Details