



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: **Baseefa04ATEX0273X**

4 Equipment or Protective System: **Type CU1 Combination Beacon/Sounder Units**

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. 04(C)0084

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 50019: 2000

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 2G EEx de IIB T3 (T_{amb} = -40°C to +50°C)

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

Baseefa Customer Reference No. 0676

Project File No. 04/0084

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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Registered in England No. 4305578 at the above address

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



13

Schedule

14

Certificate Number Baseefa04ATEX0273X

15 Description of Equipment or Protective System

The Type CU1-S Combination Unit may be rated from 12V d.c. to 254V a.c. with a maximum power dissipation of 50 watts and comprises an inverted 'T' shaped enclosure, manufactured in glass reinforced polyester by compression moulding.

The front of the enclosure is closed by an irregular shaped horn flare, with a sintered metal disc mounted in the centre for the transmission of sound energy. This mates with the main body of the unit via a tapered spigot joint and is secured by six M5 by 20mm long stainless steel socket head cap screws of grade A2-70 or stronger, with brass thread inserts embedded in the body shell.

The top of the enclosure is closed with a threaded cover complete with a borosilicate wellglass cemented into the centre. In addition the wellglass may be protected by an optional guard arrangement fixed to the cover. When assembled the threaded joint is locked by a M4 x 10mm long steel grub screw.

The rear of the enclosure is portioned off to form an increased safety (Ex e) terminal enclosure containing up to two, 4 way, Klippon Type BK4 Terminal Blocks as detailed by EC-Type Examination Certificate SIRA01ATEX3247U. The terminal box is then closed by a flat cover secured by three M5 x 20mm stainless steel socket head cap screws with brass thread inserts embedded in the body shell. The shank diameter of each screw is machined down, by the manufacturer, to provide a retention arrangement within the counterbores of the cover.

The interior of the main enclosure is supplied from the terminal box by a potted through bushing and may contain up to the following components, all mounted on a right-angled bracket :-

- a. A power (transformer) PCB
- b. A sound driver unit rated at 10W
- c. A sounder PCB
- d. A xenon lamp PCB

Up to two M20 or M25 (or equivalent) cable entries are provided in the side wall of the terminal enclosure. Internal and external earthing facilities are provided by an M5 threaded stud passing through the terminal box wall adjacent to the supply terminals.

Variation 0.1

An alternative sounder PCB assembly which limits the sound driver output to 5W.

In this form the unit is re-designated a Type CU1-H Combination Unit and has an extended ambient temperature range of -40°C to +70°C

16 Report Number

Baseefa Certification Report 04(C)0084



17 Special Conditions for Safe Use

1. Painting and surface finishes, other than those applied by the manufacturer, are not permitted
2. Not more than one single or multiple strand wiring 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.
3. Leads connected to the terminals shall be insulated for at least 275V and this insulation shall extend to within 1mm of the metal of the terminal throat.
4. Minimum creepage and clearance distances between the terminals and adjacent conductive parts (including cable entry devices) must be at least 5mm.
5. All terminal screws, used and unused, shall be tightened down.

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
297-101 Sheets 1 to 4	A	30/01/04	General Arrangement, Type CU1 Combination Beacon/Sounder Unit
297-162	A	16/11/04	Driver Detail
297-163	A	18/11/04	CU1-H Label (High Ambient Unit)
297-164	A	18/11/04	CU1-S Label (Standard Unit)



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: **Baseefa04ATEX0273X/1**

4 Equipment or Protective System: **Type CU1 Combination Beacon/Sounder Units**

5 Manufacturer: **MEDC Limited**

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

7 This supplementary certificate extends EC - Type Examination Certificate No. **Baseefa04ATEX0273X** 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. 05/0448

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On behalf of
Baseefa (2001) Ltd.



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Schedule

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Certificate Number Baseefa04ATEX0273X/1

15

Description of the variation to the Equipment or Protective System

Variation 1.1

Revised internal PCB arrangement, together with a reduction in the permitted minimum ambient temperature to -50°C.

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Report Number

Baseefa Certification Report 05(C)0448

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Special Conditions for Safe Use

None additional to those listed previously

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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
297-101 Sheets 1 to 4	B	29/09/05	General Arrangement, Type CU1 Combination Beacon/Sounder Unit
297-163	B	29/09/05	CU1-H Label (High Ambient Unit)
297-164	B	29/09/05	CU1-S Label (Standard Unit)



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: **Baseefa04ATEX0273X/2**

4 Equipment or Protective System: **Type CUI Combination Beacon/Sounder Units**

5 Manufacturer: **MEDC Limited**

6 Address: **Colliery Road, Pinxton, Nottingham, NG16 6GF.**

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa04ATEX0273X 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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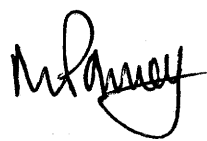

Baseefa Customer Reference No. 0676

Project File No. 06/0980

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DIRECTOR
On behalf of
Baseefa (2001) Ltd.



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Schedule

14

Certificate Number Baseefa04ATEX0273X/2

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

Variation 2.1

To permit the use of alternative painting processes

Variation 2.2

To allow the fitting of an alternative DB16 sounder flare

16 **Report Number**

Baseefa Certification Report 06(C)0980

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
297 - 101	1 to 5	D	24-01-07	General Arrangement Type CU1 Combination Beacon Sounder Unit



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: **Baseefa04ATEX0273X/3**

4 Equipment or Protective System: **Type CU1 Combination Beacon/Sounder Unit**

5 Manufacturer: **Cooper MEDC Limited**

6 Address: **Colliery Road, Brookhill Industrial Estate,
Pinxton, Nottingham, NG16 6JF**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa04ATEX0273X** 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.

8 Item 9 of the original Certificate is replaced by “Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0: 2009

EN 60079-1: 2007

EN 60079-7: 2007

except in respect of those requirements listed at item 18 of the Schedule.”

9 The marking of the equipment has changed from the original Certificate and shall include the following:

Ex II 2 G Ex de IIB T3 (T_{amb} = -50°C to +50°C)* Gb - *see schedule

This certificate shall be held with the original certificate and may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. **0676**

Project File No. **10/0223**

This certificate is granted subject to the general terms and conditions of Baseefa. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

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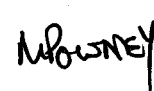
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Registered in England No. 4305578. Registered address as above.


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DIRECTOR
On behalf of
Baseefa



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Schedule

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Certificate Number Baseefa04ATEX0273X/3

15 Description of the variation to the Equipment or Protective System

Variation 3.1

The equipment and variants covered by this certificate has been assessed against the requirements of EN 60079-0: 2009, EN 60079-1: 2007 and EN 60079-7: 2007 in respect of the differences from EN50014: 1997 + Amendments 1 & 2, EN50018: 2000 + Amendment 1, and EN50019: 2000 and compliance is confirmed.

Variation 3.2

The permitted ambient temperature range of the Type CU1-H unit is restricted to -50°C to +60°C, pending additional testing in pursuance of EN 60079-1 clause 15.2.

Variation 3.3

The certification drawings incorporate amendments and clarifications to reflect the requirements of the above standards.

16 Report Number

Baseefa Certification Report GB/BAS/ExTR11.0318/00

17 Specific Conditions of 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
297-211 Sheets 1 to 5	A	06-12-11	General Arrangement, ATEX Type CU1 Combination Beacon/Sounder Units
297-212	A	23-11-11	Driver Detail, ATEX
297-213	A	06-12-11	CU1-H ATEX Label (High Ambient Unit)
297-214	A	14-12-11	CU1-S ATEX Label (Standard Unit)

These drawings supersede those previously listed which are now obsolete.

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Schedule

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Certificate Number Baseefa04ATEX0273X/4

15 Description of the variation to the Equipment or Protective System

Variation 4.1

An increase to the upper ambient temperature rating of the Type CU1-H Combination Beacon/Sounder Unit to +70°C, with a corresponding change in marking.

In addition, the label drawings are updated to reflect the manufacturer's change of address.

16 Report Number

Baseefa Report No. GB/BAS/ExTR13.0124/00

17 Specific Conditions of 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
297-213	B	16-04-13	Certification Label, CU1-H (High Temp), ATEX
297-214	B	16-04-13	Certification Label, CU1-S (Standard Temp), ATEX

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: **Baseefa04ATEX0273X/5**

4 Equipment or Protective System: **Type CU1 Combination Beacon/Sounder Unit**

5 Manufacturer: **Cooper MEDC Limited**

6 Address: **Unit B, Sutton Parkway, Oddicroft Lane, Sutton-in-Ashfield
NG17 5FB**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa04ATEX0273X** 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.

Baseefa Customer Reference No. **0676**

Project File No. **13/0733**

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On behalf of SGS Baseefa Limited

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Schedule

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Certificate Number Baseefa04ATEX0273X/5

15 Description of the variation to the Equipment or Protective System

Variation 5.1

Introduction of a pressed wire element in place of the sintered metal disc in the horn assembly, together with a corresponding amendment of the Temperature Classification to T4.

16 Report Number

Baseefa Report No. GB/BAS/ExTR14.0166/00

17 Specific Conditions of 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
297-211 Sheets 1 to 5	B	16/05/14	General Assembly, CU1 ATEX
297-213	D	16/05/14	Label Drawing CU1-H, ATEX
297-214	D	16/05/14	Label Drawing CU1-S, ATEX
* 297-265	A	16/05/14	Pressed Wire Element

* This drawing is common to, and is held with, IECEx BAS 11.0149X