



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx BAS 11.0149X	Issue No: 3	Certificate history:
Status:	Current	Page 1 of 4	Issue No. 3 (2014-06-02)
Date of Issue:	2014-06-02		Issue No. 2 (2013-06-03)
			Issue No. 1 (2013-03-04)
			Issue No. 0 (2011-12-22)
Applicant:	Cooper MEDC Limited Unit B, Sutton Parkway Oddicroft Lane Sutton-in-Ashfield NG17 5FB United Kingdom		
Electrical Apparatus:	Type CU1 Combination Beacon/Sounder Unit		
Optional accessory:			
Type of Protection:	Flameproof & Increased Safety		
Marking:	Ex de IIB T4 (Tamb = -50°C to +50°C)* Gb * see description		

Approved for issue on behalf of the IECEx
Certification Body:

R S Sinclair

Position:

General Manager

Signature:
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

SGS Baseefa Limited
Rockhead Business Park
Staden Lane
Buxton
Derbyshire
SK17 9RZ
United Kingdom





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Certificate No: IECEx BAS 11.0149X

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Page 2 of 4

Manufacturer: **Cooper MEDC Limited**
Unit B, Sutton Parkway
Oddicroft Lane
Sutton-in-Ashfield
NG17 5FB
United Kingdom

Additional Manufacturing
location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2007-10 Edition:5	Explosive atmospheres - Part 0:Equipment - General requirements
IEC 60079-1 : 2007-04 Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-7 : 2006-07 Edition:4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[GB/BAS/ExTR11.0318/00](#)

[GB/BAS/ExTR13.0124/00](#)

[GB/BAS/ExTR14.0166/00](#)

Quality Assessment Report:

[GB/BAS/QAR06.0023/05](#)



IECEx Certificate of Conformity

Certificate No: IECEx BAS 11.0149X

Issue No: 3

Date of Issue: 2014-06-02

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

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 an ambient temperature range of -50°C to +50°C. The unit is constructed around an inverted 'T' shaped enclosure, manufactured in glass reinforced polyester.

The front of the enclosure is closed by a horn flare, with a sintered metal disc mounted in the centre. The horn mates with the main body via a tapered spigot joint and is secured by six M5 by 20mm long stainless steel socket head cap screws. The top of the enclosure is closed with a threaded cover, complete with a wellglass, locked by a M4 x 10mm long steel grub screw. The wellglass is protected by a wire guard arrangement fixed to the cover.

The interior of the main enclosure may contain a xenon lamp PCB, a power (transformer) PCB, a sounder PCB and a sound driver unit rated at 10W.

The rear of the enclosure is a segregated increased safety (Ex e) terminal enclosure containing up to two component certified 4 way Terminal Blocks. The terminal box is closed by a flat cover secured by three M5 x 20mm stainless steel socket head cap screws. 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.

Variation 0.1

An alternative sounder PCB assembly which limits the sound driver output to 5W. In this form the unit is designated a Type CU1-H Combination Unit and has an extended ambient temperature range of -50°C to +70°C

CONDITIONS OF CERTIFICATION: YES as shown below:

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



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Certificate No: IECEx BAS 11.0149X

Issue No: 3

Date of Issue: 2014-06-02

Page 4 of 4

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Variation 3.1

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.

ExTR: GB/BAS/ExTR14. 0166/00

File Reference: 13/0733