



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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

Certificate No.:	IECEx BAS 11.0149X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 5	Issue 4 (2016-09-28)
Date of Issue:	2022-10-31		Issue 3 (2014-06-02)
Applicant:	Eaton MEDC Limited Unit B, Sutton Parkway Oddicraft Lane Sutton-in-Ashfield NG17 5FB United Kingdom		Issue 2 (2013-06-03)
Equipment:	Type CU1 Combination Beacon/Sounder Unit		Issue 1 (2013-03-04)
Optional accessory:			Issue 0 (2011-12-22)
Type of Protection:	Flameproof & Increased Safety		
Marking:	Ex db eb IIB T4 (Tamb = -50°C to +50°C)* Gb - *see schedule		

Approved for issue on behalf of the IECEx
Certification Body:

R S Sinclair

Position:

Technical Manager

Signature:
(for printed version)

Date:
(for printed version)

31/10/2022

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.
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Certificate issued by:

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





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

Manufacturing
locations: **Eaton MEDC Limited**
Unit B, Sutton Parkway
Oddicroft Lane
Sutton-in-Ashfield
NG17 5FB
United Kingdom

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 equipment 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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with 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 Reports:

GB/BAS/ExTR11.0318/00
GB/BAS/ExTR21.0175/00

GB/BAS/ExTR13.0124/00

GB/BAS/ExTR14.0166/00

Quality Assessment Report:

GB/BAS/QAR06.0023/11



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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

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

Variation 5.1

The manufacturer requests a variation to assess the Type CU1 combination beacon/ sounder unit against the following standards IEC 60079-0:2017 Edition 7, IEC 60079-1:2014 Edition 7, IEC 60079-7:2017 Edition 5.1

ExTR: **GB/BAS/ExTR21.0175/00**

File Reference: **21/0544**