

EU - TYPE EXAMINATION CERTIFICATE

Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

- 1 EU - Type Examination Certificate Number: **Baseefa04ATEX0273X – Issue 6**
- 2 Product: **Type CU1 Combination Beacon/Sounder Unit**
- 3 Manufacturer: **Cooper MEDC Limited**
- 4 Address: **Unit B, Sutton Parkway, Oddicroft Lane, Sutton-in-Ashfield
NG17 5FB, UK**
- 5 This re-issued certificate extends EU Type Examination Certificate No. Baseefa04ATEX0273X to apply to product 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.
- 6 SGS Fimko Oy, Notified Body number 0598, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
- 7.1 The original certificate was issued by SGS Baseefa Ltd (UK Notified Body 1180). It, and any supplements previously issued by SGS Baseefa Ltd have been transferred to the supervision of SGS Fimko Oy (EU Notified Body 0598). The original certificate number is retained.
- The examination and test results are recorded in confidential Report No. **GB/BAS/ExTR21.0175/00**
- 8 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0: 2018 EN 60079-1: 2014 EN IEC 60079-7: 2015/A1: 2018
except in respect of those requirements listed at item 18 of the Schedule.
- 9 If the sign “X” is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.
- 10 This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- 11 The marking of the product shall include the following :
- ⊕ II 2 G Ex db eb IIB T4 (Tamb = -50°C to +50°C)* Gb - *see schedule**

SGS Fimko Oy Customer Reference No. **0676**

Project File No. **21/0544**

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Authorised Signatory for SGS Fimko Oy

13 **Schedule**

14 **Certificate Number Baseefa04ATEX0273X – Issue 6**

15 **Description of Product**

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 pressed wire element 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 well glass cemented into the centre. In addition, the well glass 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 -50°C to +70°C

16 **Report Number**

GB/BAS/ExTR21.0175/00

17 **Specific Conditions of 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 (EHSRs) are covered by the standards listed at item 9.

19 Drawings and Documents

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
297-211	1 to 5	C	27/07/2021	General Assembly, CU1 ATEX
297-213	-	E	10/09/2021	Label Drawing CU1-H, ATEX
297-214	-	E	10/09/2021	Label Drawing CU1-S, ATEX

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
*297-265	-	A	16/05/2014	Pressed Wire Element

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

20 Certificate History

Certificate No.	Date	Comments
Baseefa04ATEX0273X	06/12/2004	The release of the prime certificate. The associated test and assessment against the requirements of EN 50014:1997+amendments 1 & 2, EN 50018:2000+amendment 1 and EN 50019:2000 is documented in Test Report No. 03(C)0999.
Baseefa04ATEX0273X/1	30/09/2005	Revised internal PCB arrangement, together with a reduction in the permitted minimum ambient temperature to -50°C.
Baseefa04ATEX0273X/2	24/01/2007	To permit the use of alternative painting processes and To allow the fitting of an alternative DB16 sounder flare.
Baseefa04ATEX0273X/3	13/12/2011	Standards update to cover the requirements of EN 60079-0: 2009, EN 60079-1: 2007 and EN 60079-7: 2007. Reduced ambient temperature range of Type CU1-H unit to -50°C to +60°C.
Baseefa04ATEX0273X/4	28/05/2013	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.
Baseefa04ATEX0273X/5	02/06/2014	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.
Baseefa04ATEX0273X Issue 6	01 November 2022	Standards update to cover the requirements of EN 60079-0: 2018, EN 60079-1: 2014 and EN 60079-7: 2015+A1:2018. Minor drawing changes.

For drawings applicable to each issue, see original of that issue.