

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: **Baseefa13ATEX0229X**

4 Equipment or Protective System: **Type DB3B G Sounder & DB4B G Loudspeaker**

5 Manufacturer: **Cooper MEDC Limited**

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

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, 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. **GB/BAS/ExTR13.0247/00**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0: 2012
EN 60079-1: 2007

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 Ex d IIC T4 Gb (T_{amb} = -55°C to +70°C)*

*See Schedule

Baseefa Customer Reference No. **0676**

Project File No. **12/0368**

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Re-issued 17th March 2014 to replace original

M Powney
MR S SINCLAIR *M Powney*
GENERAL MANAGER

On behalf of SGS Baseefa Limited

13

Schedule

14

Certificate Number Baseefa13ATEX0229X

15 Description of Equipment or Protective System

The DB4B G Loudspeaker may be rated up to 100V at either 8W, 15W or 25W and comprises a cylindrical body and two covers all moulded in Glass Reinforced Polyester. The front cover is an irregular shape which when fitted forms a chamber for the speaker driver assembly and is permanently sealed/filled with a potting compound. In the front of this cover is a fine stainless steel pressed metal wire element to facilitate sound transmission.

The circular rear cover closes a flameproof chamber housing an assembly of a transformer and a control/terminal PCB. The cover is fixed with six M5 x 20mm long stainless steel socket head screws of grade A2-70 minimum. The screws are profiled to be retained within the rear cover during assembly/dis-assembly.

Up to two M20/M25 (or NPT equivalent) cable entries are provided in the side of the enclosure to accommodate suitably certified cable entry devices.

A plastic horn assembly (with either a long or short flare) is fitted externally to the front, and along the sides, of the enclosure, together with a mounting bracket.

The 8W units are marked with a T4 ($T_{amb} = -55^{\circ}\text{C}$ to $+70^{\circ}\text{C}$) and/or T5 ($T_{amb} = -55^{\circ}\text{C}$ to $+55^{\circ}\text{C}$) and/or T6 ($T_{amb} = -55^{\circ}\text{C}$ to $+40^{\circ}\text{C}$) Temperature Class/Ambient combination.

The 15W units are marked with a T4 ($T_{amb} = -55^{\circ}\text{C}$ to $+65^{\circ}\text{C}$) and/or T5 ($T_{amb} = -55^{\circ}\text{C}$ to $+55^{\circ}\text{C}$) and/or T6 ($T_{amb} = -55^{\circ}\text{C}$ to $+40^{\circ}\text{C}$) Temperature Class/Ambient combination.

The 25W units are marked with a T4 ($T_{amb} = -55^{\circ}\text{C}$ to $+55^{\circ}\text{C}$) and/or T5 ($T_{amb} = -55^{\circ}\text{C}$ to $+40^{\circ}\text{C}$) Temperature Class/Ambient combination.

Variation 0.1

The DB3B G Sounder is rated up to 254V, 15W and is identical in construction to the above Loudspeaker except that the flameproof chamber contains different components, including sound generating PCB's (with both AC & DC variants)

The Sounders are marked with a T4 ($T_{amb} = -55^{\circ}\text{C}$ to $+70^{\circ}\text{C}$) and/or T5 ($T_{amb} = -55^{\circ}\text{C}$ to $+55^{\circ}\text{C}$) and/or T6 ($T_{amb} = -55^{\circ}\text{C}$ to $+40^{\circ}\text{C}$) Temperature Class/Ambient combination.

In addition the DB3B G Sounder may optionally be marked with an alternative RB6-B G type designation.

6 Report Number

Confidential Report Number GB/BAS/ExTR13.0247/00

17 Specific Conditions of Use

1. For replacement purposes the cover fixing screws shall be of stainless steel grade A2-70 or stronger.
2. Painting and surface finishes, other than those applied by the manufacturer, are not permitted.

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
# 399-101 Sheets 1 to 3	A	22/11/2013	General Arrangement, DB4B Speakers
# 419-107	A	22/11/2013	General Arrangement, DB3B Sounders
* 399-102	A	14-10-13	Certification Labels, DB4B G Ex d Speaker
* 419-109	A	14-10-13	Certification Labels, DB3B G Ex d Sounder

Number	Issue	Date	Description
^ 419-176	A	22/11/2013	Pressed Wire Element, Standard Mesh

Drawing common to IECEX BAS 13.0112X, IECEX BAS 13.0113X, IECEX BAS 13.0114X and IECEX BAS 13.0115X together with Baseefa13ATEX0231X, Baseefa13ATEX0232X and Baseefa13ATEX0233X

* Drawing common to IECEX BAS 13.0112X.

^ Drawing common to IECEX BAS 13.0112X, IECEX BAS 13.0114X and Baseefa13ATEX0232X.

All the above drawings are held on IEC Ex BAS13.0112X.

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: **Baseefa13ATEX0229X/1**

4 Equipment or Protective System: **Type DB3B G Sounder & DB4B G Loudspeaker**

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. Baseefa13ATEX0229X 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. 15/0646

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R S SINCLAIR

GENERAL MANAGER

On behalf of SGS Baseefa Limited

13

Schedule

14

Certificate Number Baseefa13ATEX0229X/1

15 Description of the variation to the Equipment or Protective System

Variation 1.1

To permit the amendment to change the terminal conductor size from 3.5mm² to 4mm².

Variation 1.2

Minor admin changes to the drawings not affecting certification.

16 Report Number

SGS Baseefa Report Number GB/BAS/ExTR15.0256/00

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	Sheet	Issue	Date	Description
*399-101	1 to 3	C	04/09/2015	DB4B EXD Speaker, General Assembly
**419-109	1	B	07/09/2015	DB3B Exd G Sounder

*This drawing is common to Baseefa13ATEX0229X, Baseefa13ATEX0231X, Baseefa13ATEX0232X, Baseefa13ATEX0233X and IECEX BAS 13.0115X, IECEX BAS 13.0114X, IECEX BAS 13.0113X and IECEX BAS 13.0112X and held with the latter.

**This drawing is common to Baseefa13ATEX0229X and IECEX BAS 13.0112X and held with the latter.

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: **Baseefa13ATEX0229X/2**

4 Equipment or Protective System: **DB3B G Sounder & DB4B G Loudspeaker**

5 This certificate is held by: **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. **Baseefa13ATEX0229** 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. 16/0211

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PP McInnes M Powney
R S SINCLAIR

GENERAL MANAGER

On behalf of SGS Baseefa Limited

13

Schedule

14

Certificate Number Baseefa13ATEX0229X/2

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

Variation 2.1

To allow minor drawing changes, which do not affect the certification of the equipment.

16 **Report Number**

SGS Baseefa Report No GB/BAS/ExTR16.0088/00

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	Sheet	Issue	Date	Description
419-176	1	B	04-03-16	Sinter SS Mesh IIC Certified drawing

The drawing is common this certificate, IECEx BAS13.0114X, Baseefa13ATEX0232X and is held with IECEx BAS13.0112X

1 **SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE**

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

3 Supplementary EU - Type Examination Certificate Number: **Baseefa13ATEX0229X/3**

3.1 In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

4 Product: **Type DB3B G Sounder and DB4B G Loudspeaker**

5 Manufacturer: **Eaton 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. **Baseefa13ATEX0229X** to apply to products 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 SGS Baseefa, Notified Body number 1180, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that the product, as modified by this supplementary certificate, 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.

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

EN IEC 60079-0: 2018 **EN 60079-1: 2014**

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

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

Ⓔ **II 2G Ex db IIC T* Gb (Tamb = -55°C to +*°C)**
***See Schedule for T class & ambient combination.**

SGS Baseefa Customer Reference No. **0676**

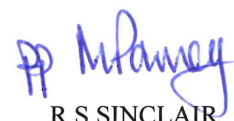
Project File No. **18/0757**

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R S SINCLAIR
TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

M POWNEY
Certification
Manager

13

Schedule

14

Certificate Number Baseefa13ATEX0229X/3

15 Description of the variation to the Product

Variation 3.1

To remove the use of an adhesive, and allow an alternative method of Ex d cover gasket retention, across all models of DB3B & DB4B.

Variation 3.2

To allow an optional IIC IIIC sinter across all models of DB3B & DB4B

Variation 3.3

To allow an increase operating ambient temperature by across all models DB3B & DB4B

Variation 3.4

To assess Type DB3B G Sounder and DB4B G Loudspeaker against the standards EN IEC 60079-0:2018 and EN 60079-1:2014

The product description is amended as follows

The DB4B G Loudspeaker may be rated up to 100V at either 8W, 15W or 25W and comprises a cylindrical body and two covers all moulded in Glass Reinforced Polyester. The front cover is an irregular shape which when fitted forms a chamber for the speaker driver assembly and is permanently sealed/filled with a potting compound. In the front of this cover is a fine stainless steel mesh pressed metal wire element to facilitate sound transmission.

The circular rear cover closes a flameproof chamber housing an assembly of a transformer and a control/terminal PCB. The cover is fixed with six M5 x 20mm long stainless steel socket head screws of grade A2-70 minimum. The screws may be profiled to be retained within the rear cover during assembly/dis-assembly.

Up to two M20/M25 (or NPT equivalent) cable entries are provided in the side of the enclosure to accommodate suitably certified cable entry devices.

A plastic horn assembly (with either a long or short flare) is fitted externally to the front, and along the sides, of the enclosure, together with a mounting bracket.

Variation 0.1

The DB3B G Sounder is rated up to 254V,15W and is identical in construction to the above Loudspeaker except that the flameproof chamber contains different components, including sound generating PCB's (with both AC & DC variants)

In addition the DB3B G Sounder may optionally be marked with an alternative RB6-B G type designation.

The equipment may be marked with one or multiple combinations, as below:

MODEL	POWER	TEMPERATURE MARKING
DB4B G	8W	T4 (T _{amb} -55°C to +85°C)
		T5 (T _{amb} -55°C to +55°C)
		T6 (T _{amb} -55°C to +40°C)
	15W	T3 (T _{amb} -55°C to +85°C)
		T4 (T _{amb} -55°C to +70°C)
		T5 (T _{amb} -55°C to +40°C)
25W	T4 (T _{amb} -55°C to +70°C)	
	T5 (T _{amb} -55°C to +40°C)	
MODEL	POWER	TEMPERATURE MARKING
DB3B G	15W	T4 (T _{amb} -55°C to +85°C)
		T5 (T _{amb} -55°C to +55°C)
		T6 (T _{amb} -55°C to +40°C)

16 Report Number

SGS Baseefa test report GB/BAS/ExTR19.0013/00

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 affected as follows.

Clause	Subject
1.2.7	LDV requirements.
1.2.8	Overloading of equipment (protection relays, etc)
1.4.1	External effects.
1.4.2	Aggressive substances etc.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
#399-101	1-3	D	30/11/18	DB4B Ex d G SPEAKER ATEX/IECEX CERTIFICATION GA
*399-102	1	B	24/01/19	DB4B Ex d G SPEAKER ATEX/IECEX CERT LABEL DETAIL
*419-109	1	C	24/01/19	DB3B Ex d G SOUNDER ATEX/IECEX CERT LABEL DETAIL
# 419-346	1	A	17/01/2019	SINTER – HYBRID MESH SS IIC + IIIC

These drawings are common to Baseefa13ATEX0229X, IECEx BAS 13.0113X, Baseefa13ATEX0231X, IECEx BAS 13.0114X, Baseefa13ATEX0232X, IECEx BAS 13.0115X, Baseefa13ATEX0233X, and held with IECEx BAS 13.0112X

*These drawings are common to, and held with, IECEx BAS 13.0112X