



# 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](http://www.iecex.com)

Certificate No.: IECEx BAS 11.0041X Issue No: 3 Certificate history:  
Status: **Current** Page 1 of 4 Issue No. 3 (2014-09-03)  
Date of Issue: **2014-09-03** Issue No. 2 (2013-03-04)  
Applicant: **Cooper MEDC Limited** Issue No. 1 (2011-11-10)  
Unit B, Sutton Parkway Issue No. 0 (2011-04-28)  
Oddicroft Lane  
Sutton-in-Ashfield  
NG17 5FB  
**United Kingdom**  
Electrical Apparatus: **Type DB10 Loudspeaker**  
*Optional accessory:*  
Type of Protection: **Flameproof and Increased safety**  
Marking: **Ex de IIB + H<sub>2</sub> T4 T<sub>amb</sub> = -50°C to +65°C Gb**  
**Ex de IIB + H<sub>2</sub> T5 T<sub>amb</sub> = -50°C to +55°C Gb**  
**Ex de IIB + H<sub>2</sub> T6 T<sub>amb</sub> = -50°C to +40°C Gb**

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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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:

<b>IEC 60079-0 : 2007-10</b> Edition:5	Explosive atmospheres - Part 0:Equipment - General requirements
<b>IEC 60079-1 : 2007-04</b> Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-7 : 2006-07</b> 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/ExTR11.0084/00](#)

[GB/BAS/ExTR11.0260/00](#)

[GB/BAS/ExTR14.0241/00](#)

##### Quality Assessment Report:

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



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The DB10 Loudspeaker comprises a cylindrical body with an end cover incorporating an external long or short horn flare at one end and a plain cover at the other, all manufactured from glass reinforced polyester. The horn assembly comprises the driver and a phosphor bronze sinter.

The driver is potted which forms the boundary between the flameproof driver enclosure and the increased safety enclosure housing type BK4 terminals to IECEx SIR 05.0035U. Once potted the housing and horn assembly are inseparable. The increased safety enclosure may be provided with an optional transformer and an MK3 3-way terminal strip to IECEx SIR 05.0036U.

Two threaded cable entries are provided in the increased safety enclosure which is provided with a seal cemented into a groove in the cover.

The speaker is rated up to 100V, 15W.

Cable entry holes are provided as specified on the certified drawings for the accommodation of cable entry devices. Unused entries are to be fitted with suitable certified stopping plugs.

The cable entry devices and stopping plugs shall maintain the IP54 rating of the equipment, shall be suitable for the equipment, the cable and the conditions of use, and shall be certified as Equipment (not a Component).

### CONDITIONS OF CERTIFICATION: YES as shown below:

1. Not more than one single or multiple strand lead shall be connected to any terminal unless multiple conductors have been joined in a suitable manner, e.g. two conductors into a single insulated crimped boot lace ferrule.
2. Leads connected to the terminals shall be insulated for the appropriate voltage and this insulation shall extend to within 1mm of the terminal throat.
3. All terminal screws, used and unused, shall be tightened down to between 0.5Nm and 0.7Nm.
4. The terminals shall only be installed and wired with cable in an ambient temperature of  $-10^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$ .
5. Painting and other surface finishes, other than those applied by the manufacturer, are not permitted



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

### Variation 3.1

To allow minor drawing changes that do not affect certification.

### Variation 3.2

To allow for a change in the lower ambient temperature range to -50°C.

ExTR: **GB/BAS/ ExTR14.0241/00**

File Reference: **14/0641**