



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 05.0083X	Issue No: 5	<u>Certificate history:</u>
Status:	Current	Page 1 of 4	Issue No. 5 (2014-07-31)
Date of Issue:	2014-07-31		Issue No. 4 (2013-11-26)
Applicant:	Cooper MEDC Limited Unit B, Sutton Parkway Oddicroft Lane Sutton-in-Ashfield NG17 5FB United Kingdom		Issue No. 3 (2013-03-04)
Electrical Apparatus:	A DB20 Speaker		Issue No. 2 (2009-10-08)
<i>Optional accessory:</i>			Issue No. 1 (2008-02-07)
Type of Protection:	Flameproof, Increased Safety and Dust Tight		Issue No. 0 (2006-07-18)
Marking:	Ex de IIC tD A21 IP65 T130°C (Tamb = -50°C to +70°C) The Loudspeaker may also be marked:- T115°C (Tamb = -50°C to +55°C) or T100°C (Tamb = -50°C to +40°C)		

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:

IEC 60079-0 : 2004 Edition:4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-1 : 2003 Edition: 5	Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosure 'd'
IEC 60079-7 : 2001 Edition:3	Electrical apparatus for explosive gas atmospheres - Part 7: Increased safety 'e'
IEC 61241-0 : 2004 Edition:1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
IEC 61241-1 : 2004 Edition:1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"

*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

IECEX ATR:	File Reference:
UK/BAS/05/0692	05/0692
GB/BAS/ExTR13.0272/00	13/0884
GB/BAS/ExTR14.0208/00	14/0520



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

A Type DB20 Loudspeaker is rated at up 100V 8W and comprises a cylindrical body and end cap manufactured in moulded glass reinforced polyester. The enclosure is fitted with a flare arrangement at the front which is held in position by three M5 by 10mm long socket button head screws. A stainless steel sinter is mounted in the centre of the body and secured within a recess with silicone sealant and a circlip. The flare provides protection of the sinter against impact.

The other end of the body incorporates an increased safety (Exe) terminal compartment.

The main body houses a potted transformer and driver assembly. The potting provides the boundary between the increased safety terminal enclosure and the flameproof driver enclosure. Up to 4 integral conductors pass through the potting from the terminals to the transformer. Up to two M20 cable entries are provided in the side wall of the terminal box for the connection of external supply cables.

Internal and external earthing facilities are provided by an integral M5 stainless steel stud clamp and nut assembly.

CONDITIONS OF CERTIFICATION: YES as shown below:

1. Not more than one single or multiple strand 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.
2. 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.
3. All terminal screws, used and unused, shall be tightened down.
4. Minimum creepage and clearance distances between the terminals and adjacent conductive parts (including cable entry devices) must be at least 5mm.
5. Painting and surface finishes, other than those applied by the manufacturer, are not permitted.
6. The cable entries shall be sealed, in accordance with the applicable installation code of practice, to ensure that the IP65 ingress protection rating is maintained.
7. This apparatus is not suitable for use in atmospheres containing carbon disulphide.



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

Variation 5.1

To allow for the use of a resettable fuse inside the flameproof enclosure of the equipment.

ExTR: **GB/BAS/ ExTR14.0208/00**

File Reference: **14/0520**