



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.: 1

Certificate history:

Issue No. 1 (2008-2-7)

Issue No. 0 (2006-7-18)

Status: **Current**

Date of Issue: **2008-02-07**

Page 1 of 4


Applicant: **MEDC Limited**
Colliery Road
Pinxton
Nottingham
NG16 6JF
United Kingdom

Electrical Apparatus: **A DB20 Speaker**
Optional accessory:

Type of Protection: **Flameproof, Increased Safety and Dust Tight**

Marking: **IECEx BAS 05.0083X**
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)

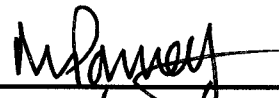
Approved for issue on behalf of the IECEx
Certification Body:

 R S Sinclair

Position:

Managing Director

Signature:
(for printed version)


7/02/08

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.

Certificate issued by:

Baseefa (2001) Ltd.
Rockhead Business Park
Staden Lane
Buxton
Derbyshire
SK17 9RZ
United Kingdom





IECEx Certificate of Conformity

Certificate No.: IECEx BAS 05.0083X

Date of Issue: 2008-02-07

Issue No.: 1

Page 2 of 4

Manufacturer: **MEDC Limited**
Colliery Road
Pinxton
Nottingham
NG16 6JF
United Kingdom

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:
UK/BAS/05/0692

File Reference:
05/0692



IECEx Certificate of Conformity

Certificate No.: IECEx BAS 05.0083X

Date of Issue: 2008-02-07

Issue No.: 1

Page 3 of 4

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.



IECEx Certificate of Conformity

Certificate No.: IECEx BAS 05.0083X

Date of Issue: 2008-02-07

Issue No.: 1

Page 4 of 4

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

Variation 1.1

Clarification and amendment of the marking which is to include the following:

Ex de IIC T4 ($T_{amb} = -50^{\circ}\text{C}$ to $+70^{\circ}\text{C}$)

Ex tD A21 IP66/IP67 T130 $^{\circ}\text{C}$ ($T_{amb} = -50^{\circ}\text{C}$ to $+70^{\circ}\text{C}$)

The loudspeaker unit may also be marked:

T4 ($T_{amb} = -50^{\circ}\text{C}$ to $+55^{\circ}\text{C}$) and T115 $^{\circ}\text{C}$ ($T_{amb} = -50^{\circ}\text{C}$ to $+55^{\circ}\text{C}$) or

T5 ($T_{amb} = -50^{\circ}\text{C}$ to $+40^{\circ}\text{C}$) and T100 $^{\circ}\text{C}$ ($T_{amb} = -50^{\circ}\text{C}$ to $+40^{\circ}\text{C}$)

ExTR: GB/BAS/ExTR08.0026/0

File Reference: 08/0040