



## EC DECLARATION OF CONFORMITY

**Equipment or Protective System Intended for use in  
Potentially Explosive Atmospheres  
Directive 94/9/EC**

Equipment: **Type DB18 Loudspeaker**  
Manufacturer: **MEDC Ltd**  
Address: **Pinxton, Nottingham, NG16 6JF, UK**

Compliance with the Essential Health and Safety Requirements is declared by compliance with:

**EN 50014: 1997 + Amds 1 & 2 EN 50021: 1999**

The examination and test results relating to the above are contained within confidential test report number :

**01(T)0950 dated 20<sup>th</sup> May 2002  
(This Certified report was produced by BASEEFA)**

The marking of the equipment shall include the following:

 **II 3GD Eex nA II T135°C (-55°C to +55°C)T4**

### Description of Equipment

A type DB18 Speaker rated at up to 100V a.c., 15W max. The enclosure and cover are manufactured from glass reinforced polyester. Electrical connection is via component approved Klippon terminals.  
The cover is secured to the enclosure by 2 off M6 stainless steel screws, and sealed via an 'O' ring  
The enclosure houses a loudspeaker driver, a terminal block and an optional transformer. An internal earth point is provided.  
2 Cable entry holes are provided, maximum sizes ISO M20 or 1/2" NPT.

**P. Oates  
Technical Manager  
Date: 27<sup>th</sup> May 2002**

MEDC Ltd.  
Colliery Rd.  
Pinxton  
Nottingham  
NG16 6JF, UK

Tel: +44(0)1773 864100  
E-Mail: [info@medc.com](mailto:info@medc.com)

Fax: +44(0)1773 582800  
Web: [www.medc.com](http://www.medc.com)



## CERTIFICATE OF TEST

Issued by: Testing Laboratory Accreditation Number 1022



### Electrical Equipment Certification Service

Health and Safety Executive

Harpur Hill, Buxton, Derbyshire, SK17 9JN, United Kingdom

Tel: 01298 28000 Fax: 01298 28244

Internet: [www.bascefa.com](http://www.bascefa.com) e-mail: [bascefa.info@hsl.gov.uk](mailto:bascefa.info@hsl.gov.uk)

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Date of Issue : 27/05/2002

Certificate No : T01/0950/052

APPLICANT : M E D C

EECS Job No : 01/0950

ADDRESS : Colliery Rd  
Pinxton,  
Nottingham.  
NG16 6JF

EECS File No : 0676/03/024

EECS T.R.S. No : TRS/01/0950/1to5

EECS T.R. No : 01(T)0950

#### Description of Test Sample

The DB18 Loudspeaker consists of a speaker and transformer contained within a glass reinforced polyester housing, 245mm long by 123mm diameter. The open 'flare' end of the housing is 163mm diameter. Electrical connection to the transformer is via component approved Klippon Mk3 terminals. A removable cover, sealed to the housing using a silicone rubber 'O'ring allows access to the terminals.

#### Drawings

Number: 255-130, Issue: A, Date: 13/05/2002, Description: General Arrangement.

#### Specification

The DB18 Loudspeaker was tested in accordance with the following clauses of EN50 021:1999.

- 4.3.1 Maximum surface temperature.
- 8. Clearances, creepage distances, and separations.
- 9. Electric strength.
- 26.3.1 Test for resistance to impact.
- 26.3.4 Test of non-metallic enclosures or non-metallic parts of enclosures.
- 26.12 Degree of protection.

#### Result

The DB18 Loudspeaker is suitable for use in an ambient range of -55°C to +55°C in areas with a normal risk of impact. The housing provides a degree of protection equivalent to at least IP65. The maximum surface temperature is 129.7°C for an operating voltage of up to 110V.

#### Comments

The DB18 Loudspeaker successfully meets the test requirements of EN50 021:1999 for the clauses mentioned above.

Test carried out by : D Brearley

Checked and Approved by : M R Corfield



I M CLEARE  
DIRECTOR EECS

The uncertainties are for a confidence probability of not less than 95%

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