



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: **Baseefa05ATEX0198X**

4 Equipment or Protective System: **A Type DB20 Loudspeaker**

5 Manufacturer: **MEDC Limited**

6 Address: **Colliery Road, Pinxton, Nottingham, NG16 6JF**

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 (2001) Ltd., 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. **05(C)0211**

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

**EN 60079-0: 2004**

**EN 60079-1: 2004**

**EN 60079-7: 2003**

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 de IIB T3 (T<sub>amb</sub> = -50°C to +70°C)**

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. **0676**

Project File No. **05/0211**

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

**Baseefa**

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**R S SINCLAIR**  
**DIRECTOR**  
On behalf of  
Baseefa (2001) Ltd.



13

## Schedule

14

Certificate Number Baseefa05ATEX0198X

### 15 Description of Equipment or Protective System

A Type DB20 Loudspeaker 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 head cap screws, with brass thread inserts embedded in the body shell. A bronze sinter with a maximum bubble pore size of 250µm, 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 is closed by an end cap, over an increased safety (Exe) terminal compartment and is secured by three M5 x 20mm stainless steel socket head cap screws with brass thread inserts embedded in the body shell. The shank diameter of each screw is machined down, by the manufacturer, to provide a retention arrangement within the counterbores of the cover. The interior of the terminal box comprises a 4 way, Klippon Type BK4 Terminal Block to Certificate SIRA01ATEX3247U.

The main body houses a potted driver assembly and an optional potted transformer. 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.

The Type DB20 Loudspeaker is rated up to 100V 8W, with a maximum driver rating of 8 watts for the version without the transformer.

The Type DB20 Loudspeaker may also be marked with an alternative temperature classification:-

**T4 (T<sub>amb</sub> = -50°C to +40°C)**

### 16 Report Number

Baseefa Certification Report 05(C)0211

### 17 Special Conditions for Safe Use

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.



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**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	Sheet	Issue	Date	Description
*309-101	1	A	11.03.05	General Arrangement Type DB20 Loudspeaker
*309-101	2	A	11.03.05	General Arrangement Type DB20 Loudspeaker
309-111	-	A	21.10.05	IIB Sinter Detail, Bronze
309-110	-	A	11.07.05	IIB Certification Label

\* These drawings are common to certificate Baseefa05ATEX0199X



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- 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    **See Schedule**  
      Number:
- 4   Equipment or protective system:                   **See Schedule**
- 5   Manufacturer:   **MEDC**
- 6   Address:   **Colliery Road, Pinxton, Nottingham, NG16 6JF**
- 7   This supplementary certificate extends the EC - Type Examination Certificates listed in the Schedule to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedules of the said Certificates but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

A copy of this Supplementary Certificate shall be attached to each of the original Certificates.

This certificate may only be reproduced in its entirety, without any change, Schedule included.

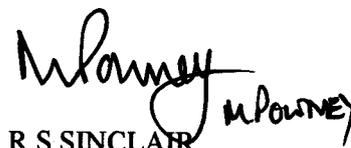
Baseefa Customer Reference No. 0676

Project File No. 07/0181

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R S SINCLAIR  
DIRECTOR  
On behalf of  
Baseefa (2001) Ltd.



### Schedule

#### Description of the variation to the Equipment or Protective System

To permit the use of epoxy or acrylic paint processes on the products detailed below.

Certificate No.	Supplement No.	Equipment Type
BAS99ATEX2195X	5	XBII
BAS99ATEX2196	5	XB12,FB12,TH12,FL12,
BAS00ATEX2031	2	XB9
BAS00ATEX2097X	9	DB3, DB3L, DB4, DB4L
BAS00ATEX2098X	9	DB3E, DB3E, DB4, DB4E
BAS00ATEX2204X	1	XB10
BAS00ATEX2226X	1	XB10E
BAS02ATEX2086X	5	DB10
BAS02ATEX2105X	4	BGE, PBE
Baseefa03ATEX0084X	2	BG1, PB1
Baseefa04ATEX0009X	3	XB15, FB15, FL15, LD15, TH15
Baseefa04ATEX0166X	2	DB16 IIB
Baseefa04ATEX0167X	2	DB16 IIC
Baseefa05ATEX0198X	1	DB20 IIB
Baseefa05ATEX0199X	1	DB20 IIC

#### Report No.

None

#### Special Conditions for Safe Use

None additional to those listed previously

#### Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation

#### Drawings and Documents

Number	Issue	Date	Description
122-808	1	05/03/07	Addition of Optional Acrylic Paint to Products Listed.