




EC - TYPE EXAMINATION CERTIFICATE

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

- 1
- 2
- 3 EC - Type Examination Certificate Number: **Baseefa04ATEX0167X**
- 4 Equipment or Protective System: **Type DB16 IIC Loudspeaker**
- 5 Manufacturer: **MEDC Limited**
- 6 Address: **Colliery Road, Pinxton, Nottinghamshire, 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. 03(C)0347
- 9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- EN 50014: 1997 + Amendments 1 & 2**
EN 50018: 2000 + Amendment 1
EN 50019: 2000
EN 50281-1-1: 1998 + Amendment 1
- 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 2GD EEx de IIC T110°C (T_{amb} -50°C to +40°C) IP6X**

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

Baseefa (2001) Ltd. Customer Reference No. 0676

Project File No. 03/0347

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 (2001) Ltd.

Health and Safety Laboratory Site, Harpur Hill,
Buxton, Derbyshire SK17 9JN
Telephone +44 (0) 1298 28255 Fax +44 (0) 1298 28216
e-mail info@baseefa2001.biz web site www.baseefa2001.biz
Registered in England No. 4305578 at 13 Dovedale Crescent, Buxton,
Derbyshire, SK17 9BJ

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



13

Schedule

14

Certificate Number Baseefa04ATEX0167X

15 Description of Equipment or Protective System

The **Type DB16 IIC Speaker Unit** is rated at up to 100V with a maximum power dissipation of 30 watts. The unit comprises a cylindrical enclosure complete with an external horn flare all manufactured in glass reinforced polyester by compression moulding.

The flare arrangement forms a front cover to the enclosure and has spigot mating joint which is held in position by six M5 by 20mm long stainless steel socket head cap screws of grade A2-70 or stronger. Brass thread inserts are embedded in the body shell. A stainless steel sinter is mounted in the centre of the horn flare to facilitate the transmission of sound energy.

The other end of the enclosure body is closed by a flat cover over an integral increased safety (Exe) terminal chamber. The cover 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 up to two, 4 way, Klippon Type BK4 Terminal Blocks as detailed by EC Type Examination Certificate SIRA01ATEX3247U, mounted horizontally in the base of the terminal chamber.

The base of the terminal compartment forms the rear of the flameproof compartment with up to 4 integral conductors passing through the enclosure wall via a potted bushing. The interior of the flameproof housing comprises a driver unit mounted in the flare and potted into position behind the sinter, together with an optional transformer mounted on the chamber dividing wall.

Internal and external earthing facilities are provided by an integral M5 stainless steel stud arrangement passing through the side wall into the terminal box

Up to two M25 cable entries are provided in the side wall of the terminal box for the accommodation of suitably certified cable entry devices. The cable entry devices or stopping plugs should be certified as Equipment (not a Component) under an EC Type Examination Certificate to Directive 94/9/EC.

16 Report Number

Baseefa Certification Report No. 03(C)0347

17 Special Conditions for Safe Use

1. This apparatus is not suitable for use in atmospheres containing carbon disulphide.
2. 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.
3. 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.
4. All terminal screws, used and unused, shall be tightened down.
5. Minimum creepage and clearance distances between the terminals and adjacent conductive parts (including cable entry devices) must be at least 5mm.
6. Painting and surface finishes, other than those applied by the manufacturer, are not permitted



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7. When this unit is intended for use in dust atmospheres the cable entries shall be sealed, in accordance with the applicable installation code of practice, to ensure that the IP6X ingress protection rating is maintained.

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	Issue	Date	Description
* 286-101 Sheets 1 to 3	A	17/04/03	General Arrangement Type DB16 Speaker Unit
* 286-121	A	09/03/04	Driver Assembly
286-122	A	21/04/04	IIC Sinter Detail, Stainless Steel
286-124	A	29/04/04	IIC Certification Label

* Drawings common to, and held with, Certificate Baseefa04ATEX0166X



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 Number: **Baseefa04ATEX0167X/1**

4 Equipment or Protective System: **Type DB16 IIC Loudspeaker**

5 Manufacturer: **MEDC Limited**

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

7 This supplementary certificate extends EC - Type Examination Certificate No. **Baseefa04ATEX0167X** to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This supplementary certificate shall be held with the original certificate.

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

Baseefa (2001) Ltd. Customer Reference No. **0676**

Project File No. **04/0617**

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Baseefa (2001) Ltd.

Health and Safety Laboratory Site, Harpur Hill,
Buxton, Derbyshire SK17 9JN
Telephone +44 (0) 1298 28255 Fax +44 (0) 1298 28216
e-mail info@baseefa2001.biz web site www.baseefa2001.biz
Registered in England No. 4305578 at 13 Dovedale Crescent, Buxton,
Derbyshire, SK17 9BJ

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



13

Schedule

14

Certificate Number Baseefa04ATEX0167X/1

15 Description of the variation to the Equipment or Protective System

Variation 1.1

Introduction of a DB16 Loudspeaker Unit with a reduced maximum power rating of 25W and an increased ambient temperature range of -50°C to +65°C.

16 Report Number

None

17 Special Conditions for Safe Use

None additional to those listed previously

18 Essential Health and Safety Requirements

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

19 Drawings and Documents

Number	Issue	Date	Description
286-127	A	10/08/04	Certification Label, DB16 ATEX IIC +65



- 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.

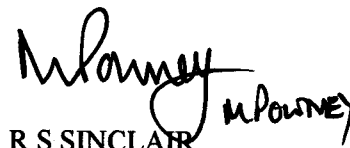
Baseefa Customer Reference No. 0676

Project File No. 07/0181

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Baseefa

Rockhead Business Park, Staden Lane,
Buxton, Derbyshire SK17 9RZ
Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601
e-mail info@baseefa.com web site www.baseefa.com
Baseefa is a trading name of Baseefa (2001) Ltd
Registered in England No. 4305578 at the above address


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.