



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: **Baseefa04ATEX0166X**

4 Equipment or Protective System: **Type DB16 IIB 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**

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 EEx de IIB T3 (T<sub>amb</sub> -50°C to +40°C)**

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.

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

**Baseefa (2001) Ltd.**  
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## Schedule

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Certificate Number Baseefa04ATEX0166X

### 15 Description of Equipment or Protective System

The **Type DB16 IIB 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 bronze 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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**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**

<b>Number</b>	<b>Issue</b>	<b>Date</b>	<b>Description</b>
* 286-101 Sheets 1 to 3	A	17/04/03	General Arrangement Type DB16 Speaker Unit
* 286-121	A	09/03/04	Driver Assembly
286-112	A	21/04/04	IIB Sinter Detail, Bronze
286-115	A	16/04/03	IIB Certification Label

\* Drawings common to Certificate Baseefa04ATEX0167X



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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 Number: **Baseefa04ATEX0166X/1**

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

5 Manufacturer: **MEDC Limited**

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

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa04ATEX0166X** 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**

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.**

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**DIRECTOR**  
On behalf of  
Baseefa (2001) Ltd.



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### Schedule

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Certificate Number Baseefa04ATEX0166X/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
286-126	A	10/08/04	Certification Label, DB16 ATEX IIB +65



- 1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**
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- 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.

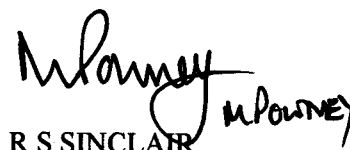
Baseefa Customer Reference No. 0676

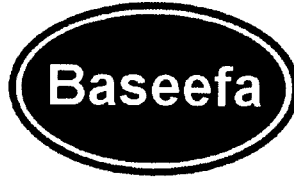
Project File No. 07/0181

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.

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### 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.



1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

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Directive 94/9/EC**

3 Supplementary EC - Type Examination Certificate      **See Schedule**  
Number:

4 Equipment or protective system:      **See Schedule**

5 Manufacturer:      **MEDC Limited**

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.

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Baseefa Customer Reference No. 0676

Project File No. 08/0067

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Baseefa is a trading name of Baseefa (2001) Ltd  
Registered in England No. 4305578 at the above address





## Schedule

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

Alternative certification label wording for the units listed below and as on the scheduled drawings.

Certificate No.	Supplement No.	Equipment Type
BAS00ATEX2031	3	Type XB9 Xenon Beacon
BAS00ATEX2097X	10	Type DB3 Sounder and DB4 Speaker Units
BAS00ATEX2204X	2	Type XB10 Beacon
Baseefa02ATEX0224X	6	Type XB4 Xenon Beacon
BAS02ATEX2086X	6	Type DB10 Loudspeaker Units
Baseefa03ATEX0222	4	Type SM87 HXB & SM87 LED Beacons
Baseefa04ATEX0166X	3	Type DB16 IIB Speaker Unit

### 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	Sheet	Issue	Date	Description
227-173	-	A	28-01-08	Type XB9 Xenon Beacon
219-833	-	A	28-01-08	Type DB3 Sounder Units
199-519	-	A	28-01-08	Type DB4 Speaker Units
228-210	-	A	28-01-08	Type XB10 Beacon
188-625	-	A	28-01-08	Type XB4 Xenon Beacon
253-154	-	A	07-01-08	Type DB10 Loudspeaker Units
562-661	-	A	28-01-08	Type SM87 HXB Xenon Beacon
562-662	-	A	28-01-08	Type SM87 LED Beacon
286-145	-	A	07/01/08	Type DB16 IIB Speaker Unit