

PRODUCT NAME – DB3 VOICE  
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SHEET 1 OF 6

**MEDC**

**DB3 VOICE SOUNDER**

**TECHNICAL MANUAL**

**MASCO Biztonságtechnikai és Nyílászáró Automatizálási Kereskedelmi Kft.  
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## **CONTENTS**

- 1.0   INSTALLATION**
- 2.0   OPERATION**
- 3.0   MAINTENANCE**
- 4.0   CERTIFICATION**
- 5.0   APPROVALS**
- 6.0   SPECIAL CONDITIONS FOR SAFE USE**

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## 1. INSTALLATION

### 1.1 Mounting

The unit mounts via a 'u' shaped strap. The fixing centres of the strap are quoted on the catalogue sheet. When fixed in position the units' alignment can be adjusted by loosening the two M6 screws, which fasten the strap to the sounder. The sounder can then be adjusted to the required position and the screws tightened. The sounder should be positioned such that dust/debris or water cannot settle in the re-entrant horn.

### 1.2 To Remove End Cover

Remove the 6 off M5 cover screws (EExd version) or 2 off M5 cover screws (EExde version).

### 1.3 Wiring

Cable termination should be in accordance with specifications applying to the application. MEDC recommend that all cables and cores should be fully identified.

Ensure that only the correct certified glands are used and that the assembly is shrouded and correctly earthed.

The unit is available in two basic configurations: -

1. EExd DC Input
2. EExde DC Input

The above types have 4 terminals labelled as T1 to T4. The supply should be connected to T1(+ve), T2(-ve), loop out on T3, T4 respectively.

### 1.4 General

When installing and operating explosion-proof electrical equipment, the relevant national regulations for installation and operation (e.g. IEE Wiring Regulations) must be observed.

Ensure that all nuts, bolts and fixings are secure.

Ensure that only the correct certified stopping plugs are used to blank off unused gland entry points. We recommend the use of 'HYLOMAR PL32 COMPOUND' on the threads of the stopping plugs in order to maintain the IP rating of the unit.

## 2.0 OPERATION

The sounder is available in the DC voltage input version only.

The absolute input voltage range is 11.0V to 58.0V.

### 2.1 RECORDING

Regardless of input type, maximum duration of message cannot exceed 20 seconds.

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### MICROPHONE INPUT

Ensure switch number one of SW1 is in the OFF position and switch number two of SW1 is in the ON position.

Press and hold the Red record button, and speak into the microphone. Release the button when you have finished talking.

To re-record the message press and hold the Red record button, and speak into the microphone as before. The previous message will be recorded over.

When you have finished recording set switch number two of SW1 to the OFF position.

### AUDIO SOURCE INPUT

To record from an audio source ensure both switches of SW1 are in the OFF position. Connect the audio input CONN1 to the audio source via a mono 3.5mm jack connector. While playing back the audio source press and hold the Red record button for the duration of the audio source. When you have finished recording remove the audio input.

To re-record the message press and hold the Red record button, and playback the audio source as before. The previous message will be recorded over.

## 2.2 NORMAL PLAYBACK

Ensure switch one of SW1 is set to the OFF position. Press the Green playback button once to playback the entire recorded message.

## 2.3 REPEATED PLAYBACK

Set the repeat delay preset to 0s. Set switch number one of SW1 to the ON position, and you will hear your recording repeat over and over. Adjust the preset to increase the delay of the repeat to the required position. Note: In the maximum position the repeat should occur approximately every 15 seconds.

To enable the unit to automatically go into the repeated playback mode, leave switch number one of SW1 in the ON position when the unit is turned OFF. When the supply to the unit is switched back ON the message will automatically repeat at the set delay time.

Note: The message will not play straight away on power up, there will be a delay depending on the preset value.

## 2.4 DELETING A RECORDING

To delete a recording press the RED record button once.

## 3.0 MAINTENANCE

During the working life of the unit, it should require little or no maintenance. GRP will resist attack by most acids, alkalis and chemicals and is as resistant to concentrated acids and alkalis as most metal products.

However, if abnormal or unusual environmental conditions occur due to plant damage or accident etc., then visual inspection is recommended.

If the unit requires cleaning, then only clean exterior with a damp cloth to avoid electro-static charge build up.

If spare parts are required, then these should only be supplied by MEDC.

If a unit fault should occur, then the unit should be returned to MEDC for repair/replacement.

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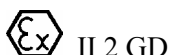
#### 4.0 CERTIFICATION

1. Certification to: - EN50014:1997, EN50018:1994 & EN50019:1994  
EExd IIC & EExde IIC

For T classes and ambient temperature ranges please see ‘Special Conditions of Safe Use’ leaflet supplied with sounder

ATEX Certificate No.’s BAS 00ATEX2097X (EExd) & BAS 00ATEX2098X (EExde).

The ATEX certificate and the product label carry the ATEX group and category marking: -



Where:

	signifies compliance with ATEX
II	signifies suitability for use in surface industries
2	signifies suitability for use in Zone 1
G	signifies suitability for use in the presence of gases
D	signifies suitability for use in dust atmospheres

The product label also carries the following mark: -



This signifies unit compliance to the relevant European directives, in this case 94/9/EC, along with the number of the notified body issuing the EC type examination certificate.

#### 5.0 APPROVALS

Electromagnetic compatibility to BS EN 50081-1:1992  
BS EN 50081-2:1995

#### 6.0 SPECIAL CONDITIONS FOR SAFE USE

##### a) TYPE DB3/DB3L - BAS 00ATEX2097X (EExd)

1. This apparatus is not suitable for use in atmospheres containing carbon disulphide.
2. This apparatus is suitable for use only in ambient temperatures as follows :-

Type	Power Rating	Ambient Temp.
DB3V	≤ 15W	-20°C to +55°C
DB3LV	≤ 15W	-55°C to +55°C

3. Painting and surface finishes, other than those applied by the manufacturer, are not permitted.

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4. When used in dust atmospheres the flameproof cable entry devices or stopping plugs shall be selected and installed to maintain the dust tight (IP6X) integrity of the enclosure.

b) **TYPE DB3E/DB3LE - BAS 00ATEX2098X (EExde)**

1. This apparatus is not suitable for use in atmospheres containing carbon disulphide.
2. Not more than one single or multiple strand wiring 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 bootlace 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. This apparatus is suitable for use only in ambient temperatures as follows :-

Type	Power Rating	Ambient Temp.
DB3VE	≤ 15W	-20°C to +45°C
DB3LVE	≤ 15W	-55°C to +55°C

6. Minimum creepage and clearance distances between the terminals and adjacent conductive parts (including cable entry devices) must be at least 5mm.
7. Painting and surface finishes, other than those applied by the manufacturer, are not permitted.
8. When used in dust atmospheres the flameproof cable entry devices or stopping plugs shall be selected and installed to maintain the dust tight (IP6X) integrity of the enclosure.

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