# Exd(e), Weatherproof



## Introduction

This range of lightweight all GRP, flameproof voice sounders is intended for use in potentially explosive gas and dust atmospheres and has been designed with high ingress protection to cope with the harsh environmental conditions found offshore and onshore in the oil, gas and petrochemical industries.

The flamepaths, flare and the body, are manufactured completely from a UV stable glass reinforced polyester. Stainless steel screws and sinter are incorporated thus ensuring a corrosion free product. A tapered flamepath is used to overcome the problems of assembly of parallel spigot flamepaths.

This unit offers up to 20 seconds of speech which can be recorded via an integral microphone or an input from an external source. The unit incorporates a variable delay allowing speech to be repeated at equal intervals of up to approximately 15 seconds.

In addition, a 'mechanical bell' sound version is available.

An optional Exe terminal chamber is available.

An uncertified version is available for use in non-explosive atmospheres.

## **Features**

- Zone 1, Zone 2 and non-Ex use.
- Ex de IIC T4/T5.
- ATEX approved, EEx II 2GD.
- Optional Exe terminal chamber.
- BASEEFA certified.
- IECEx certified Gb, Db.
- CUTR certified.
- Chinese (CQST) certified:
- Brazilian (Inmetro) certified.
- IP66 and IP67.
- \*Certified temperature: -55°C to +70°C.
- All GRP corrosion free flamepaths.
- Up to 110dB(A) output.
- Integral volume control.
- d.c. version accepts any voltage between 12V d.c. and 48V d.c.
- End of line resistor option.
- Sounder/Beacon Combination Unit available.
- Bell recording version available.

\*Depending on version.







## Certification and Specification

ATEX EEx d: Cert. no. BAS00ATEX2097X

Certified to: EN50014, EN50018.

Ex II 2GD, EEx d IIC T4/T5.

ATEX EEx de: Cert. no. BAS00ATEX2098X.

Certified to: EN50014, EN50018, EN50019.

Ex II 2GD, EEx de IIC T4/T5.

IECEx Ex d: Cert. no. IECEx BAS 11.0083X

Certified to: IEC60079-0, IEC60079-1, IEC60079-31. Ex d IIC T4/T5 Gb, Ex tb IIIC T100°C/T135°C Db.

IECEx Ex de: Cert. no. IECEx BAS 11.0084X.

Certified to: IEC60079-0, IEC60079-1, IEC60079-7, IEC60079-31.

Ex de IIC T4/T5 Gb, Ex tb IIIC T100°C/T135°C Db. 1Ex d IIC T4/T5 Gb, Ex tb IIIC T100°C/T135°C Db.

CUTR Ex d:

Russian Fire Approved.

CUTR Ex de: 2Ex de IIC T4/T5 Gb, Ex tb IIIC T100°C/T135°C Db

Russian Fire Approved. Ex d IIC T4/T5 Gb.

Inmetro Ex d: Inmetro Ex de: Ex d e IIC T4/T5 Gb. CQST: Exd IIC T4.

Material: Body & horn in anti-static, UV stable, glass reinforced polyester (GRP). Swivel bracket & captive cover screws in stainless steel.

Finish: Body and horn, natural black or painted to customer colour requirements

Up to 48V d.c. Voltage:

Weight: 6.0kg approx. dependent on model (+0.5kg for Exe)

IP66 & 67 **Ingress Protection: Entries:** Up to 2 x M20 Exd.

2 x M20 Exe

Terminals: 6 x 2.5mm<sup>2</sup> (d.c.) 110dB(A) (message dependent) Output:

**Volume Control:** Potentiometer.

Voice Recording: Up to 20 seconds recording time GRP is fire retardant to ISO 1210. Fire Retardancy: Stainless steel bracket with ratchet facility.

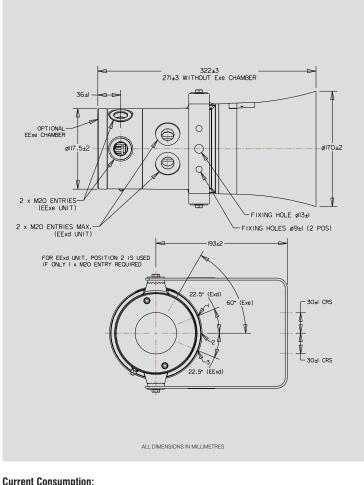
**Earth Continuity:** Included on Exde version.

Sounder/Beacon Unit: The DB3V may be combined with an MEDC beacon to create a

combined voice/visual alarm.

Contact MEDC for price and specification.

Labels: Duty and tag labels optional.



#### **Current Consumption:**

V	I
12V d.c.	1.2A
24V d.c.	600mA
48V d.c.	300mA

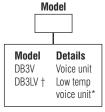
#### **Certified Temperature:**

Mounting:

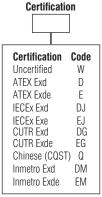
	Exd	Exde	GOST R&K Exd	GOST R Exde	Chinese Exd
DB3V	-20°C +70°C	$-20^{\circ}\text{C} + 70^{\circ}\text{C}$	$-20^{\circ}\text{C} + 50^{\circ}\text{C}$	$-20^{\circ}\text{C} + 40^{\circ}\text{C}$	-20°C +55°C
DB3LV*	-55°C +70°C	-50°C +70°C	-55°C +55°C	-55°C +55°C	n/a

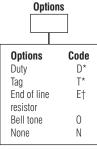
<sup>\*</sup> DB3LV IECEx Min Temp - 40°C

Ordering Requirements The following code is designed to help in selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box.

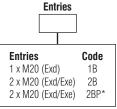


\* Available unpainted only. † Min IECEx temp -40°C.

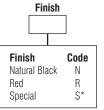




\* Please specify wording. † State value



\* With one certified plug fitted



\* Please specify.