

## Exd(e), Weatherproof



### 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.
- GOST 'R' & 'K' 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.*

### Introduction

This range of light weight 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.



**Authorized Distributor:**  
**GasDetectorsUSA.com**  
**Houston, TX USA**  
**832-615-3588**  
**sales@GasDetectorsUSA.com**



# Specification

**Certification:** Certified to IEC60079-0, IEC60079-1, IEC60079-7, IEC60079-31  
 Certified to EN50014, EN50018, EN50019  
 ATEX EEx d Cert. No. BAS00ATEX2097X  
 Ex II 2GD, EEx d IIC T4/T5  
 ATEX EEx de Cert. No. BAS00ATEX2098X  
 Ex II 2GD, EEx de IIC T4/T5  
 Zones 1 and 2.  
 IECEx Exd Cert. No. IECEx BAS 11.0083X  
 Ex d IIC T4/T5 Gb, Ex tb IIIC T100°C/T135°C Db  
 IECEx Ex de Cert. No. IECEx BAS 11.0084X  
 Ex de IIC T4/T5 Gb, Ex tb IIIC T100°C/T135°C Db  
 GOST 'R' Certification: 1Exd IIC T4 & 1Exde IIC T4.  
 Russian Fire Approval  
 GOST 'K' Certification: Exd IIC T4 & Exde IIC T4.  
 Chinese (CQST) Certification: Exd IIC T4  
 Brazilian (Inmetro) Certification: BR-Ex d IIC T5/T4/T135°C.  
 BR-Ex de IIC T5/T4/T135°C.

<b>Material:</b>	Body & horn in anti-static, UV stable, glass reinforced polyester (GRP). Swivel bracket & captive cover screws in stainless steel.
<b>Finish:</b>	Body and horn, natural black or painted to customer colour requirements.
<b>Voltage:</b>	Up to 48V d.c.
<b>Weight:</b>	6.0kg approx. dependent on model (+ 0.5kg for Exe).
<b>Ingress Protection:</b>	IP66 & 67.
<b>Entries:</b>	Up to 2 x M20 Exd. 2 x M20 Exe.
<b>Terminals:</b>	6 x 2.5mm <sup>2</sup> (d.c.).
<b>Output:</b>	110dB(A) (message dependent).
<b>Volume Control:</b>	Potentiometer
<b>Voice Recording:</b>	Up to 20 seconds recording time.
<b>Fire Retardancy:</b>	GRP is fire retardant to ISO 1210.
<b>Mounting:</b>	Stainless steel bracket with ratchet facility.
<b>Earth Continuity:</b>	Included on Exde version.
<b>Sounder/Beacon Unit:</b>	The DB3V may be combined with an MEDC beacon to create a combined voice/visual alarm. Contact MEDC for price and specification
<b>Labels:</b>	Duty and tag labels optional.

## Certified Temperature:

	Exd	Exde	GOST R&K Exd	GOST R Exde	Chinese Exd
<b>DB3V</b>	-20°C +70°C	-20°C +70°C	-20°C +50°C	-20°C +40°C	-20°C +55°C
<b>DB3LV*</b>	-55°C +70°C	-50°C +70°C	-55°C +55°C	-55°C +55°C	n/a

\* 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.

Model	Certification	Options	Entries	Finish																																																												
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\* Available unpainted only.

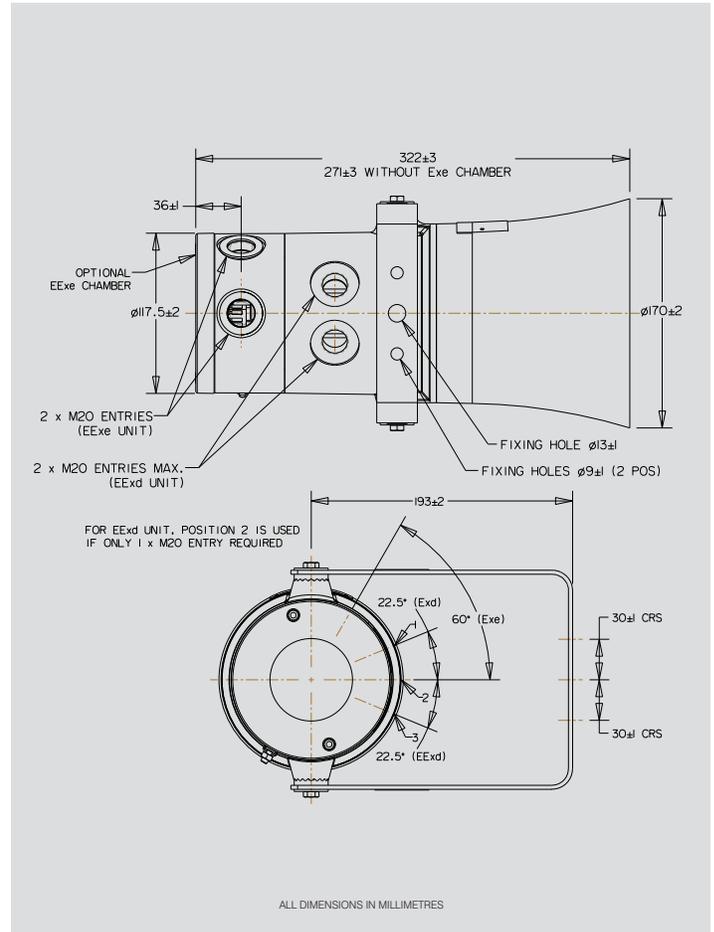
† Min IECEx temp -40°C.

\* Please specify wording.

† State value.

\* With one certified plug fitted.

\* Please specify.



## Current Consumption:

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