SOUNDERS – Up to 118 dB(A)
EExd(e), Weatherproof
DB3 Range

Sounder/Beacon
Combination Unit

Introduction

This range of light weight all GRP, flameproof 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.

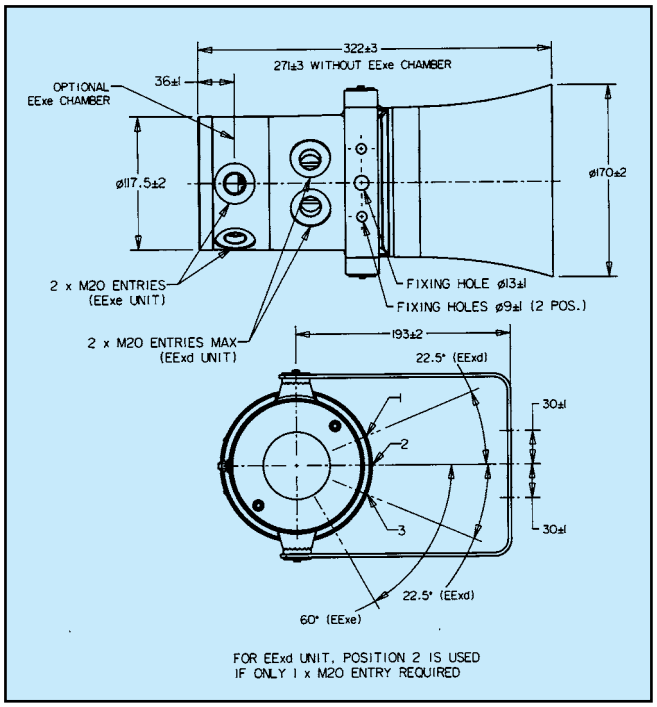
An optional Exe terminal chamber is available.

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

- ★ Zone 1, Zone 2 and non-Ex use.
- ★ EExde IIC T5.
- ★ ATEX approved, Ex II 2GD.
- ★ Optional Exe terminal chamber.
- ★ BASEEFA certified.
- ★ UL Listed for USA and Canada
  - – Hazardous locations:
    - Class I, Div 2, Groups A-D.
    - Class II, Div 2, Groups F & G
    - Class I, Zones 1 & 2, AExd IIC T4.
  - – Ordinary locations: Audible-Signal Device.
- ★ GOST 'R' & 'K' certified.
- ★ Chinese (CQST) certified.
- ★ Australian (SAA) certified.
- ★ Brazilian (Inmetro) certified.
- ★ IP66 and IP67.
- ★ *Certified temperature –55°C to +70°C.
- ★ All GRP corrosion free flamepaths.
- ★ Up to 118dBA output.
- ★ Integral volume control.
- ★ 27 tones, user selectable.
- ★ Tones comply with UK00A/PFEER guidelines.
- ★ Two tones may be switched via the external voltage supply – now available in AC and DC versions.
- ★ Tones may be programmed to customer specification.
- ★ d.c. version accepts any voltage between 12V d.c. and 48V d.c.
- ★ End of line resistor option.
- ★ Sounder/Beacon Combination Unit available.

*Depending on version.

Distribuição: Segurança Industrial Equipamentos
Fone/Fax: (41) 4063-9687 ou 3287-1364
cml@segind.com.br - segindbr@hotmail.com
www.segind.com.br



Terminals:	4 x 2.5mm² (a.c.), 6 x 2.5mm² (d.c.).
Earth Continuity:	Included on EExde version.
Mounting:	Stainless steel bracket with ratchet facility.
Labels:	Duty and tag labels optional.
Cable Entries:	Up to 2 x 20mm EExd 2 x 20mm EExe. Up to 2 x ¹/₂" NPT UL. Note: ATEX/UL Dual Listed version up to 2x¹/₂" NPT or 2xM20 via adapter (fitted).
Tone Selection:	27 user selectable tones.
Sounder/Beacon Unit:	The DB3 may be combined with an MEDC beacon to create a combined audio/visual alarm. Contact MEDC for price and specification
Two Stage Unit DB3P:	Switchable between two tones:
D.C.	(i) Reversing the polarity of the supply, or (ii) by a 3 wire common +ve system, switching between the two –ve lines.
A.C.	(iii) Closing/opening connection between 2 terminals e.g. by using a volt free relay contact at the panel. 2 tones must be specified at time of order.
3/4 Tone Unit:	Remote 3 or 4 tone available – contact sales office for details.

Specification

Certification: CENELEC EN50014, 18, 19.
BASEEFA Cert. No. BAS00ATEX2097X, EExd IIC.
BASEEFA Cert. No. BAS00ATEX2098X, EExde IIC.
Zones 1 and 2.
UL Listed for USA and Canada
– Hazardous locations:
Class I, Div 2, Groups A-D.
Class II, Div 2, Groups F & G.
Class I Zones 1 & 2, AExd IIC T4.
Listing No: E203310.
– Ordinary locations: Audible-Signal Device.
Listing No. S8116.
Refer to UL data sheet at rear of catalogue for complete information.
GOST 'R' Certification: 1Exd IIC T4 & 1Exde IIC T4.
Russian Fire Alarm (VNIIPO) Approved.
GOST 'K' Certification: Exd 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.

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

Finish: Body and horn, natural black or epoxy paint coated to client's colour requirements.

Sound Output: Long Flare: 115dB(A) ± 3dB(A) (tone dependent).
Short Flare: 108dB(A) ± 3dB(A) (tone dependent).

Volume Control:

*Nominal Output (dBA)	Input Current (mA)
93	50
105	100
108	150
111	200
112	250
114	300
115	350

*Output measured with 24V input voltage. Tone set to 970Hz continuous.

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

Certified Temperature:

	EExd	EExde	UL	GOST 'R'&'K' Exd	GOST 'R' Exde	Chinese Exd
DB3 & DB3P	-20°C to +70°C	-20°C to +45°C	-55°C to +70°C	-20°C to +50°C	-20°C to +40°C	-20C to +55°C
DB3L & DB3LP	-55°C to +55°C	-55°C to +70°C	n/a	-55°C to +55°C	-55°C to +55°C	n/a

Ingress Protection: IP66 and IP67.

Fire Retardancy: GRP is fire retardant to ISO 1210.

Voltage: Up to 48V d.c. Up to 254V a.c.

Current Consumption:

V	I
12V d.c.	760mA
24V d.c.	380mA
48V d.c.	190mA
110V a.c	135mA
120V a.c.	124mA
220V a.c.	68mA
230V a.c.	65mA
240V a.c.	62mA
254V a.c.	59mA

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. **For standard products, available ex-stock, contact sales office for details.**

Unit Type

Type	Details
DB3	Standard unit
DB3P	Two stage
*DB3L	Low temp. standard unit
*DB3LP	Low temp. two stage

*Available unpainted only.

Certification

Type	Code
Uncertified	W
EExd	D
EExde	E
UL Listed	*UL
UL (Ordinary Locations)	UW
ATEX/UL Dual Listed	AU
GOST 'R' Exd	DG
GOST 'R' Exde	EG
GOST 'K' Exd	DK
Chinese (CQST)	Q
Inmetro Exd	EM
Inmetro Exde	DM

*Not all options are available UL listed.

Voltage

Voltage	Code
12V - 48V d.c.	048
110V a.c.	110
120V a.c.	120
220V a.c.	220
230V a.c.	230
240V a.c.	240
254V a.c.	254

Labels

Label	Code
Duty	D*
Tag	T*
None	N
*Please specify wording	

Entries

Entries	Code
1 x 20mm (EExd)	1B
2 x 20mm (EExd/EExde)	2B
1 x ¹/2" NPT (UL only)	1C
2 x ¹/2" NPT (UL only)	2C

Options

Features	Code
None	N
End of line resistor	E*
Special tone	S
*State value.	

Colour

Colour	Code
Natural Black	N
Red	R
Special	S*
*Please specify	

All the above specifications, dimensions, weights and tolerances are nominal (typical) and MEDC reserve the right to vary all data without prior notice. No liability is accepted for any consequence of use, consult sales office for clarification.

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Fone/Fax: (41) 4063-9687 ou 3287-1364
cml@segind.com.br - segindbr@hotmail.com
www.segind.com.br