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





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 I, Zones 1 & 2, AExd IIC T4.

- Ordinary locations: Audible-Signal Device.
- GOST 'R' & 'K' certified.
- Chinese (CQST) certified.
- Australian (SAA) 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 UKOOA/PFEER guidelines.
- Any two tones may be switched via the external voltage supply.
- 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.

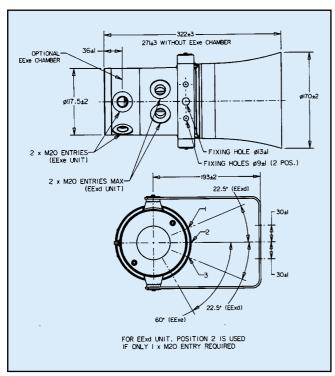
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Terminals:	4 x 2.5mm² (a.c.), 6 x 2.5mm² (d.c.).		
Earth Continuity:	Included on EExde version.		
Mounting:	Stainless steel bracket with ratchet facility.		
Labels:	Duty and tag labels optional.		
Cable Entries:	Up to 2×20 mm EExd 2×20 mm EExe. Up to $2 \times 1/2$ " NPT UL. Note: ATEX/UL Dual Listed version only up to $1/2$ " NPT available.		
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 any two tones by either: (i) Reversing the polarity of the supply, or (ii) by a 3 wire common +ve system, switching between the two -ve lines. Note: Two stage unit available in d.c. versions only.		
3/4 Tone Unit:	Remote 3 or 4 tone available – contact sales office for details.		

Specification

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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 la						
		Div 2, Grou	os A-D				
		Zones 1 & 2					
		No: E20331					
	 Ordinary loc 	- Ordinary locations: Audible-Signal Device.					
	Dafanta I II alama			S8116.		[
	Refer to UL data GOST 'R' Certi			xd IIC T4 8			
	GOST 'K' Certi			xd IIC T4.	k I EXGO III	J 14.	
	Chinese (CQST) Certificatio	n: Ex	d IIC T4.			
Material:	Body & horn in Swivel bracket						
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	*Nominal Output (dBA)			Input Current (mA)		
	93			50			
	105			100			
	108			150 200			
	1112			250			
	1	114		300			
		115		350			
	*Output measured with 24V input voltage. Tone set to 970H: continuous.						
Weight: 6.0kg approx. dependent on model (+0.5kg for EEx			g for EExe	e).			
Certified	E	Exd EExde	UL	GOST 'R'&'K' Exd	GOST 'R' Exde	Chinese Exd	
Temperature:		°C to -20°C to			-20°C to	-20C to	
	+7	70°C +45°C	+70°C	+50°C	+40°C	+55°C	
	DB3L & DB3LP -55	5°C to -55°C to	n/a	-55°C to	-55°C to	n/a	
	+4	55°C +70°C		+55°C	+55°C		
Ingress Protection	: IP66 and IP67.						
Fire Retardancy:	GRP is fire reto		1210).			
Voltage:	Up to 48V d.c. Up to 254V a.c.						
Current	V	ı					
Consumption:	12V d.c.	760mA					
	24V d.c.	380mA					
	48V d.c.	190mA					
	110V a.c	135mA					
	120V a.c.	124mA					
	220V a.c. 240V a.c.	68mA 62mA					
	240V d.c.	62mA					

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

Certification

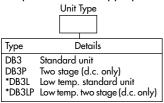
Voltage

Labels

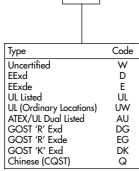
Entries

Options

Colour



^{*}Available unpainted only.



	Voltage	Code
	12V - 48V d.c.	048
_	*110V a.c.	110
1	*120V a.c.	120
┪	*220V a.c.	220
1	*240V a.c.	240
1	*254V a.c.	254
1	*DB3P not availa	ble in a.c.
	version.	
- 1		

l	Labels	Ent	ries		Opt	ions		Cd
Label	. (Code	Fed	atures			Со	de
	specify	D* T* N	Spe	ne d of lin ecial to ate val	ne	istor	P E	* .
wordin	9					6.1		

59mA

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

Colour	Code
Natural Black	Ν
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.

254V a.c.