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# SOUNDERS - Up to 118 dB(A)

EExd(e), Weatherproof DB3 Range

## **Features**

- Zone 1, Zone 2 and non-Ex use.
- EExde IIC T4/T5.
- ATEX approved, Ex II 2GD.
- Optional Exe terminal chamber.
- IECEx certified Gb, Db
- 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.
- Brazilian (Inmetro) certified.
- IP66 and IP67.
- SIL 1 Certified
- Designed in accordance with EN54-3
- \*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.
- 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
- End of line resistor option.
- Sounder/Beacon Combination Unit available.

\*Depending on version.

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.

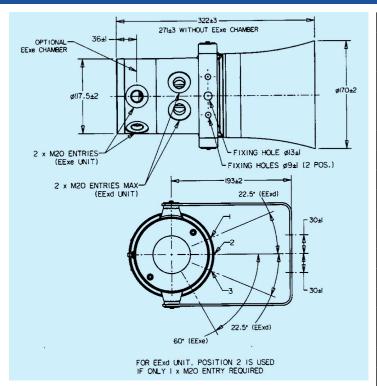
An optional Exe terminal chamber is available. An uncertified version is available for use in non-explosive atmospheres.



## Specification

Specification			
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 M20 EExd 2 x M20 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 A.S.P Electro-Technology Ltd 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. (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.		
Certification:			

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)			A)	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	Tempera	ture:					
	EExd	EExde	UL	GOST 'R'&'K' Exd	GC 'R' Exc		Chinese Exd
DB3 & DB3P	-20°C to +70°C	-20°C to +70°C	-55°C to +70°C	-20°C to +50°C	-20 to +40		-20C to +55°C
DB3L & DB3LP	-55°C to +70°C	-55°C to +70°C	n/a	-55°C to +55°C	-55 to +55		n/a
Ingress I	Protection	າ:	IP66 and IP67.				
Fire Reta	ardancy:		GRP is fire retardant to ISO 1210.				
Voltage:		Up to 48V d.c. Up to 254V a.c.					
Current Consumption:		V .			ı		
•		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.

(A) Unit Type:	Туре	Details		
	DB3	Standard Unit		
	DB3P	Two stage		
	*DB3L	Low temp. standard unit		
	*DB3LP	Low temp. two stage		
	*Available unpainted only.			
(B) Certification:	Туре	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	DM		
	Inmetro Exde	EM		
	*Not all options are available UL listed.			

(C) 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		
(D) Labels:	Label	Code		
	Duty	D*		
	Tag	T*		
	None	N		
	*Please specify wording			
(E) Entries:	Entries	Code		
	1 x M20 (EExd)	1B		
	2 x M20 (EExd/EExde)	2B		
	1 x 1/2" NPT (UL only)	1C		
	2 x 1/2" NPT (UL only)	2C		
(F) Options:	Features	Code		
	None	N		
	End of line resistor	E*		
	Special tone	S		
	*State value.			
(G) Colour:	Colour	Code		
	Natural Black	N		
	Red	R		
	Special	S*		
	*Please specify			

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

## **ORDER CODE:**

(A)	(B)	(C)	(D)	(E)	(F)	(G)