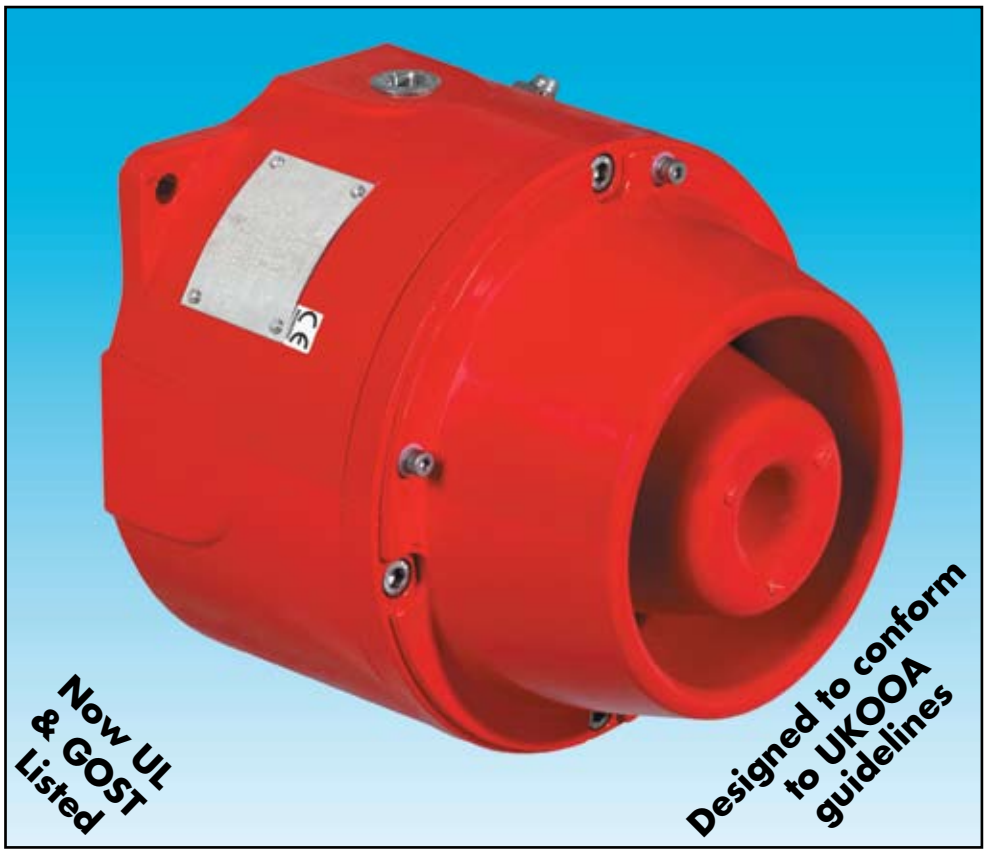
SOUNDERS – Up to 113 dB(A)
EExd, Weatherproof
DB1 Range



Introduction

This range of light weight, flameproof Sounders has been designed with a high weatherproof rating to cope with the harsh environmental conditions found offshore and onshore in the oil, gas and petrochemical industries.

New electronic circuitry allows the DB1P and DB1HP to be switched between two selectable tones by either reversing the supply polarity, or connecting a second voltage supply.

The higher output DB1H and DB1HP are particularly suitable for noisy environments.

- ★ Zone 1 and Zone 2 use.
- ★ EExd, IIB T3.
- ★ ATEX approved, Ex II 2G.
- ★ CENELEC approved, BASEEFA certified.
- ★ UL Listed – Class I, Div 1. Groups C & D.
- ★ GOST 'R' certified.
- ★ Australian (SAA) certified.
- ★ Brazilian (Inmetro) certified.
- ★ IP66.
- ★ Certified temperature –20°C to +70°C.
- ★ Up to 113 dBA output.
- ★ Available in marine grade alloy or stainless steel.
- ★ 6 or 27 output tones, user selectable.
- ★ Telephone initiate option.
- ★ Tones can be selected remotely.
- ★ Tones comply with UKOOA/PFEER guidelines.
- ★ Any two tones may be switched via the external voltage supply.
- ★ End of line resistor option.

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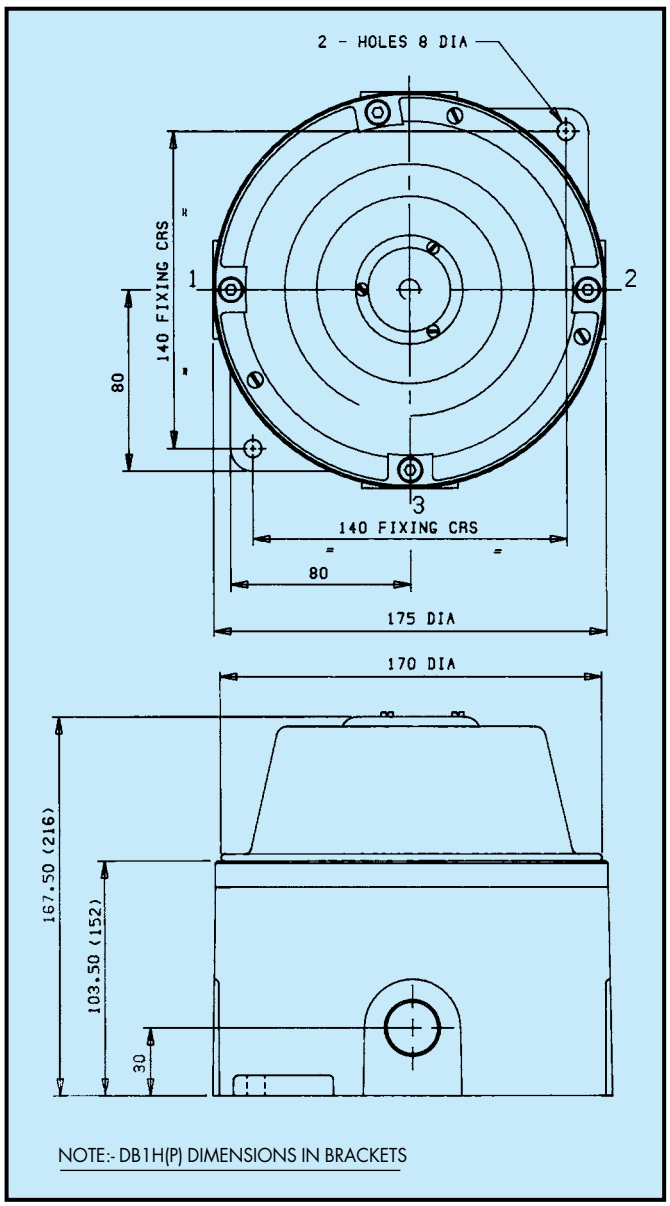

Specification

Certification:	EN50014,18. Certificate Nos: Baseefa 02ATEX0207 EExd IIB T3 for DB1(P) and Baseefa 02ATEX0209 EExd IIB T3 for DB1H(P). Zones 1 & 2. **UL Listing:** Class I, Div 1, Groups C & D. Listing No. E187688. Refer to UL data sheet at rear of catalogue for complete information. **GOST 'R' Certification:** 1Exd IIB T4 (DB1 & DB1P only). **Brazilian (Inmetro) Certification:** BR-Ex d IIB T3
Material:	LM25 corrosion resistant alloy or ANC4B stainless steel with stainless steel cover screws. ABS flare.
Finish:	Epoxy paint finish as standard or to customer's specification.
Max Sound Levels:	DB1(P)=103±3dB(A) (96±3dB(A) for 12V DB1). DB1H(P)=110 ± 3dB(A) @ 1 metre. Note: Sound level is dependent upon the tone selection.
Weight:	DB1(P) 3.5 Kg Alloy, 8.3 Kg stainless. DB1H(P) 5.6 Kg Alloy, 12.7 Kg stainless.
Certified Temperature:	ATEX/CENELEC –20°C to +55°C (DB1 & DB1P). ATEX/CENELEC –20°C to +70°C (DB1H & DB1HP). UL –25°C to +70°C.
Ingress Protection:	IP66.
Tone Selection:	Single Stage Unit ac. 27 user selectable tones including, PFEER/UKOOA tones. Two Stage Unit dc. Switchable between any two of the 27 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: Reverse monitoring is acheivable on Two Stage Version by selection of terminals.
Current Consumption:	

	DB1(P)	DB1H(P)
12V	125mA	900mA
24V	250mA	700mA
48V	250mA	–
120V	60mA	200mA
240V	50mA	100mA

Labels:	Duty and tag labels optional.
Entries:	Up to 3 x 25mm or 20mm ISO.
Terminals:	Suitable to accept up to 4mm² cable.

Ordering Requirements

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

Unit Type Certification Material Voltage Cable Entries Duty Labels Tag Label Features Finish

DB1P
DB1HP

Certification	Code
ATEX/CENELEC	B
UL (DBIP & DB IHP only)	UL
GOST 'R' (DBI & DBIP only)	G

UL -Available Alloy only.
-12V d.c., 24V d.c., 48V d.c.
110V a.c. only.
Inmetro DM

Voltage	Code
12V d.c.	012
24V d.c.	024
48V d.c. DB1(P) only	048
110V a.c.*	110
240V a.c.*	240

* Two stage available in d.c. version only.

Material	Code
Alloy Stainless Steel	A S

Entries	Code
20mm	A
25mm	B
1/2" NPT (UL Only)	C
3/4" NPT (UL Only)	D
LHS	1
RHS	2
Bottom	3

*Prefix position with entry size code
e.g. A1A3 = 20mm left and bottom entries.

Duty Labels	Code
None	N
Required	D
(Please specify)	

Tag	Label
None	N
Required	T

Features	Code
Not required	N
Telephone Initiate	T
Relay Initiate	R
Remote	S
End of line resistor	E*
(*State value.)	

Finish	Code
Red	R
Grey	G
Special	S

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.

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