DB1 sounders range up to 113 dB(A)

Ex d, weatherproof

Overview

This range of lightweight, flameproof Sounders have 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.

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.

Stainless steel, one of the most durable materials available on the market, is both hard wearing and corrosion resistant, increasing the life of products in harsh environments and therefore reducing maintenance costs.

Features

- Zone 1 and Zone 2 use
- Ex d, IIB T5 /T6*
- ATEX approved, Ex II 2G Gb
- UL Listed Class I, Div 1. Groups C & D
- IECEx certified, Gb
- TR CU certified
- CCOE certified
- IP66
- Certified temperature: –20°C to +70°C*

- SIL 1 certified*
- Up to 113 dB(A) output

CROUSE-HINDS

- Available in marine grade alloy or stainless steel
- 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
 - *Model dependent





Eaton Unit B, Sutton Parkway Oddicroft Lane Sutton in Ashfield United Kingdom NG17 5FB

T: +44 (0) 1623 444 400 www.crouse-hinds.com/hac MEDCSales@Eaton.com © 2018 Eaton All Rights Reserved Printed in UK Publication No.DSMC0008/A June 2018

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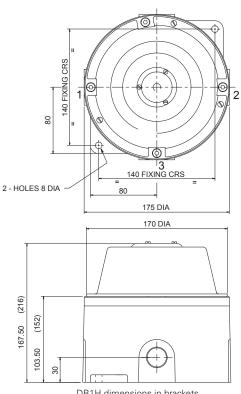


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All specifications, dimensions, weights and tolerances are nominal (typical) and Eaton reserve the right to vary all data without prior notice. No liability is accepted for any consequence of use.

Certifications		
ATEX DB1P Ex d	Cert. no. BAS00ATEX0207X Certified to: EN60079-0, EN60079-1 Ex db IIB T6 Gb (Tamb20°C to +60°C)	
ATEX DB1HP Ex d	Cert. no. BAS00ATEX0209X Certified to: EN60079-0, EN60079-1 Ex db IIB T5 Gb (Tamb20°C to +70°C)	
IECEx DB1P Ex d	Cert. no. IECEx BAS 10.0065X Certified to: IEC60079-0, IEC60079-1 Ex db IIBT6 Gb (Tamb20°C to +60°C)	
IECEx DB1HP Ex d	Cert. no. IECEx BAS 10.0064X Certified to: IEC60079-0, IEC60079-1 Ex db IIB T5 Gb (Tamb20°C to +70°C)	
UL Haz Locs	Listing no. E187688 Class I, Div 1, Groups C & D	
TR CU DB1P Ex d	1Ex d IIB T6 Gb	
SIL	SIL 1 certified to IEC61508. Cert number 20151119-4786827453 (DB1HP only)	
Specifications		
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 specification	
Certified temp	ATEX: -20°C to +60°C (DB1P) ATEX: -20°C to +70°C (DB1HP) UL: -25°C to +70°C	
Weight	DB1P: 3.5 Kg alloy, 8.3 Kg stainless DB1HP: 5.6 Kg alloy, 12.7 Kg stainless	
Ingress protection	IP66	
Entries	Up to 3 x M25 or M20	
Terminals	Suitable to accept up to 4mm ² cable Note: Terminals limited to 2.5mm ² cable on a.c. version with telephone initiate option only	
Output	DB1P: 103±3dB(A) DB1HP: 110±3dB(A) @ 1 metre Note: Sound level is dependent upon the tone selection	
Labels	Tag and duty labels optional	
Tone selection	 Single Stage Unit a.c 27 user selectable tones including, PFEER/UKOOA tones Two Stage Unit d.c 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 achievable on Two Stage Version by selection of terminals 	

General arrangement drawing (all dimensions in mm)



DB1H dimensions in brackets

Current consumption			
	DB1P	DB1HP	
12Vdc	125mA	900mA	
24Vdc	250mA	700mA	
48Vdc	250mA	350mA	
120Vac	60mA	200mA	
240Vac	50mA	100mA	

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

