

SPEAKERS – Up to 8 Watts Exde, Weatherproof DB20 Range

GOST



ATEX
IECEx




Introduction

This range of loudspeakers, intended for use in potentially explosive atmospheres, has a power rating of up to 8 Watts and is suitable for use in the harsh environmental conditions found offshore and onshore in the oil, gas and petrochemical industries.

The body and cover are manufactured from a UV stable glass reinforced polyester. The flare is manufactured from UV stable ABS.

Stainless steel screws and mounting stirrup are incorporated to ensure a corrosion-free product.

- ★ Zone 1 & 2 (and Zone 21 & 22 : IIC version) plus non-Ex use
- ★ ATEX Approved  II 2G Ex de IIB T3/T4*
- ★ IIC Gas Group and Dust approved version available.
- ★ BASEEFA certified.
- ★ Brazilian (Inmetro) certified.
- ★ GOST 'R' & 'K' certified.
- ★ IECEx Approved.
- ★ IP66.
- ★ Certified temperature -50°C to $+70^{\circ}\text{C}^*$.
- ★ GRP corrosion-free flamepath.
- ★ 112dB(A) at 8 watts at 1 metre (IIB Version)
- ★ Power tapings via integral transformer.
- ★ Ratcheted swivel mounting stirrup
- ★ Stainless steel fixtures.
- ★ 100V or 70V line versions available.
- ★ Earth continuity available.

*Temperature class relates to ambient temperature (see over)

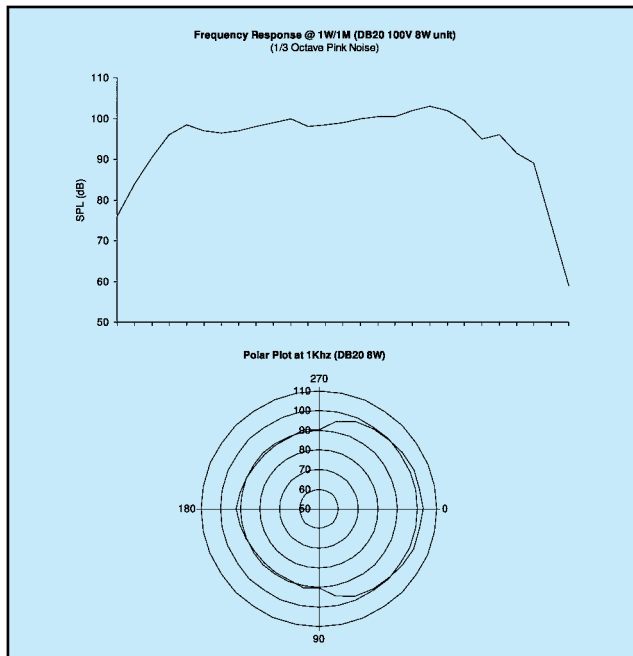
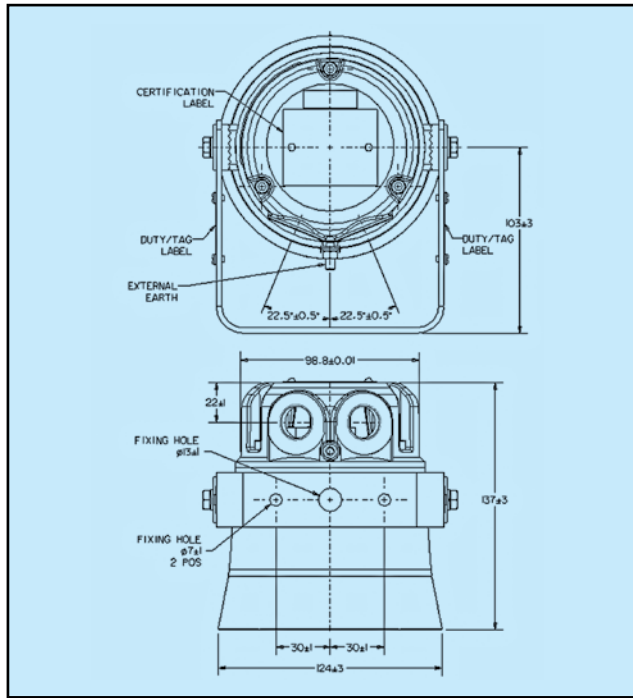
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MEDC



Specification

Rated Power: 8 Watts RMS continuous (at 25°C).
 Certification: EN60079-0, 1, 7
 IEC60079-0, 1, 7 and IEC 61241-0, 1
 BASEEFA Cert. No. BASEEFA 05 ATEX0199X

IIB version: Ex d IIB T3/T4^*
 Zone 1 & 2

IIC version: Ex d IIC T4/T5^*
 Ex tD A21 IP65 T130°C
 Zone 1 & 2 and Zone 21 & 22
 *See Certified temperature below
 Brazilian (Inmetro) Certified: BR-Ex de IIB T3/T4. BR-Ex de IIC T5/T115°C
 GOST R Certification: 2Exde IIB T3, 2Exde IIC T4
 GOST K Certification: Exde IIB T3, Exde IIC T4

Material: Body & Cover - UV stable, glass reinforced polyester.
 outer flare - UV stable ABS.
 Mounting stirrup and fixtures in stainless steel.

Finish: Natural black or painted or to client's requirements.

Output IIB version: Maximum output at 1W/1M is 103 dB(A)
 Maximum output at 4W/1M is 109 dB(A)
 Maximum output at 8W/1M is 112 dB(A)

IIC version: Maximum output at 1W/1M is 100 dB(A)
 Maximum output at 4W/1M is 106 dB(A)
 Maximum output at 8W/1M is 109 dB(A)

Weight: 1.5kg approx.

Certified Temperature:
 IIB version: Tamb -50°C to +70°C (T3) and Tamb -50°C to +40°C (T4)
 IIC version: Tamb -50°C to +70°C (T4) and Tamb -50°C to +40°C (T5)

Ingress Protection: IP66

Frequency Range: 400Hz to 7kHz.

Voice Coil Impedance: 8 ohms.

Transformer: Used by combining the rated power tapings below.

Transformer Tappings	Power (Watts)	
	(8W unit)	(4W unit)
1:2	8.00	4.00
2:3	4.00	2.00
3:4	2.00	1.00
1:3	1.50	0.75
2:4	0.75	0.38
1:4	0.40	0.20

Terminals: 4 x 2.5mm².

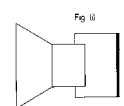
Earth Continuity: Available

Mounting: Via stirrup with ratchet facility.

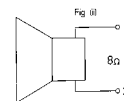
Labels: Optional stainless steel tag and duty labels.

Cable Entries: ATEX & IEC 2 x M20 ISO + 1 x certified plug

Transformer Tapping Options:



4 Terminal tap change



Direct 8ohm connection to driver, 2 spare terminals if loop in/loop out required.

Ordering Requirements

Certification	Max Rated Power	Transformer	Options	Finish
DB20				
Certification Code	Power Code	Transformer Code	Option Code	Option Code
ATEX IIB BB	8 Watts 8	Transformer X*	None N	Natural Black N
ATEX IIC BC	4 Watts 4	8ohm version N	Duty label D	Red R
IEC Ex IIB JB			Tag label T	Special S
IEC Ex IIC JC			Earth continuity E	
GOST 'R' IIB GB				
GOST 'R' IIC GC				
GOST 'K' IIB KB				
GOST 'R' IIC KC				
Inmetro IIB MB				
Inmetro IIC MC				
Weatherproof W				

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

