Ex de, Weatherproof



Introduction

This range of loudspeakers, intended for use in potentially explosive gas atmospheres, has a power rating of up to 15 Watts and is suitable for use in gas groups IIB plus hydrogen and IIC.

The flamepaths, flare and body, are manufactured from a UV stable glass reinforced polyester. Stainless steel screws and mounting stirrup are incorporated to ensure a corrosion-free product.

Features

- Zone 1, Zone 2 & non-Ex use.
- Ex de IIB + H₂ or IIC T₄/T₅/T₆.
- ATEX certified, Ex II 2G.
- IECEx certified, Gb.
- Certified by BASEEFA.
- CUTR certified.*
- Chinese (CQST) certified.*
- Brazilian (Inmetro) certified.*
- IP66 and IP67.
- Certified temperature: -40°C to +65°C.**
- GRP corrosion-free flamepath.
- 115dB(A) at 15 Watts at 1 metre.
- 8 & 15 Watt versions.
- Power tappings via integral transformer.
- Ratcheted swivel mounting stirrup.
- Fitted with 316L stainless steel fixtures.
- Earth continuity available.
- Retained cover screws.
- Internal earth stud fitted as standard.
- *Please contact MEDC Technical Sales.
- ** Model dependent, please contact MEDC Technical Sales for -50°C products.









Certification and Specification

ATEX Ex de IIB+H₂: Cert. no. Baseefa11ATEX0101X.

Certified to: EN60079-0, EN60079-1, EN60079-7.

Ex II 2G, Ex de IIB + H₂ T4/T5/T6 Gb.

ATEX Ex de IIC: Cert no Baseefa11ATFX0102X

Certified to: EN60079-0, EN60079-1, EN60079-7.

Ex II 2G. Ex de IIC T4/T5/T6 Gb.

IECEx Ex de IIB+H₂: Cert. no. IECEx BAS 11.0041X

Certified to: IEC60079-0, IEC60079-1, IEC60079-7.

Ex de IIB + H₂ T4/T5/T6 Gb.

IECEx Ex de IIC: Cert. no. IECEx BAS 11.0042X.

Certified to: IEC60079-0, IEC60079-1, IEC60079-7.

Ex de IIC T4/T5/T6 Gb.

CUTR Ex de IIB+H₂: 1Ex de IIB + H₂ T4/T5/T6 Gb.CUTR Ex de IIC: 1Ex de IIC T4/T5/T6 Gb. Inmetro Ex de: Ex d e IIB + H₂ T4/T5/T6 Gb. CQST: Ex d e IIB + H₂ T4/T5/T6 Gb.

Material: Body & horn in anti-static, UV stable, glass reinforced polyester.

Mounting stirrup and fixtures in 316L stainless steel

Finish: All natural or body and horn can be painted to customer specification.

8 & 15 Watts RMS continuous (25°C) **Rated Power:**

Long Flare (15W): 4.5kg Gross weight. 3.6kg Net weight. Weight:

Short Flare (8W): 4kg Gross weight. 3.1kg Net weight.

Ingress Protection: IP66 and IP67

Entries: Up to 2 x M20 ISO into Exe chamber.

Terminals: 8 x 4.0mm² or 4 x 4.0mm²

Output: Maximum output for IIB unit @ 1W/1M is 105dB(A)

> Maximum output for IIB unit @ 15W/1M is 115dB(A). Maximum output for IIC unit @ 1W/1M is 98dB(A) Maximum output for IIC unit @ 15W/1M is 107dB(A)

Frequency Range: 400Hz to 8kHz

Certified Temp: -40° C to $+40^{\circ}$ C (T6)**

 -40° C to $+55^{\circ}$ C (T5)**

 -40° C to $+65^{\circ}$ C (T4)*

Voice Coil Impedance: 8 ohms.

Fire Retardancy: GRP is fire retardant to ISO 1210.

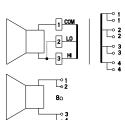
Via stirrup with ratchet facility (supplied fitted) Mounting:

Internal/External earth stud linked to gland continuity **Earth Continuity:**

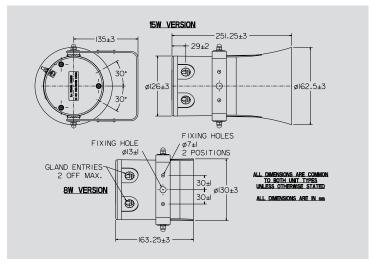
Labels: Optional stainless steel tag and duty labels.

100V line as standard. Use by combining the rated power tappings Transformer:

below



Terminals	Power	
	15W	8W
1:2 (HI)	15.0W	8.0W
1:3 (HI)	7.5W	4.0W
1:4 (HI)	3.75W	2.0W
1:2 (L0)	2.5W	1.0W
1:3 (L0)	1.25W	0.5W
1:4 (LO)	0.75W	0.25W

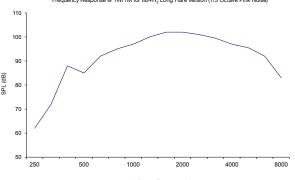


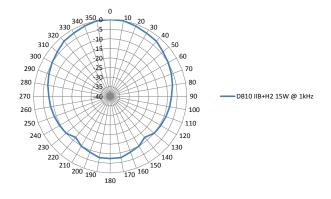
Transformer Tapping Options:

Standard: Optional:

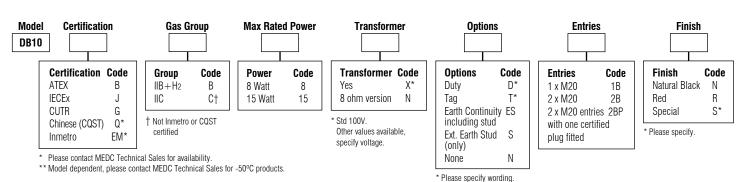
- 8 terminals (4 x 2), loop in/loop out for 6 tappings.
- 4 terminals (2 x 2), loop in/loop out, direct 8Ω connection to driver.

ency Response @ 1W/1M for IIB+H, Long Flare version (1/3 Octave Pink Noise)





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.





Thorne & Derrick www.powerandcables.com