

SPEAKERS – Up to 30 Watts Hazardous Locations, Weatherproof DB16 Range



Introduction

This range of loudspeakers, intended for use in potentially explosive gas and dust atmospheres, has a power rating of up to 30 Watts and is suitable for use in the harsh environmental conditions found offshore and onshore in the oil, gas and petrochemical industries.

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.

European approvals are available, refer to main section of catalog.

- ★ UL listed for USA and Canada
 - Hazardous locations:
 - Class I, Div 2, Groups A-D*
 - Class I, Zone 1, AExde IIB/IIC T3/T4*
 - Ordinary locations: Signalling Speaker.
- ★ ATEX approved.
- ★ NEMA 4x & 6, IP66 and IP67.
- ★ Certified temperature –67°F to +104°F.
–50°C to +40°C.
- ★ GRP corrosion-free flamepath.
- ★ Up to 112dBA at 30 Watts at 10 feet*.
- ★ Power tapplings via integral transformer.
- ★ Ratcheted swivel mounting stirrup.
- ★ Stainless steel fixtures.
- ★ 100V line or 8 ohm versions available.

*Model dependent.

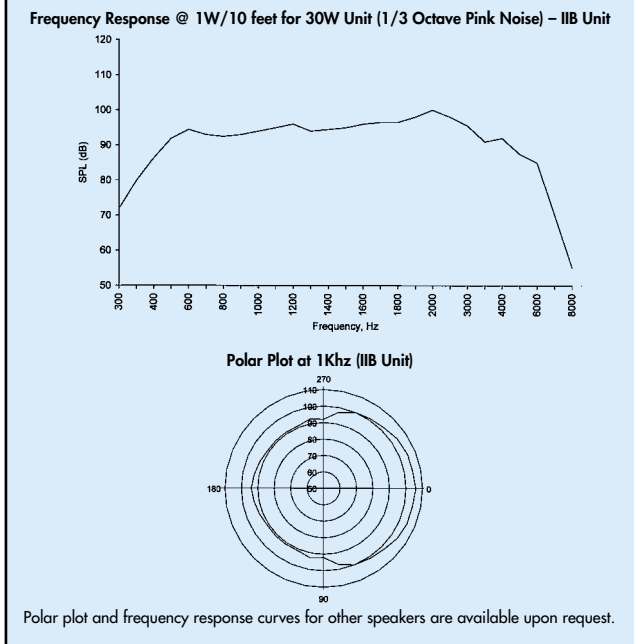
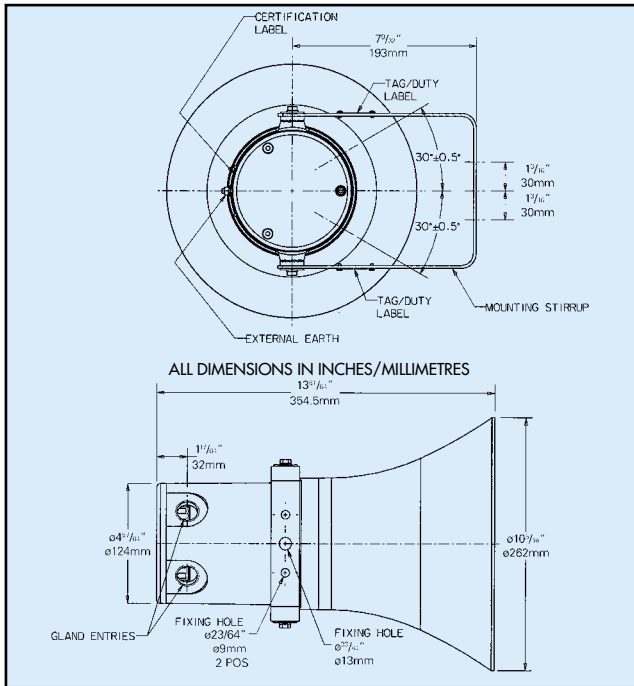
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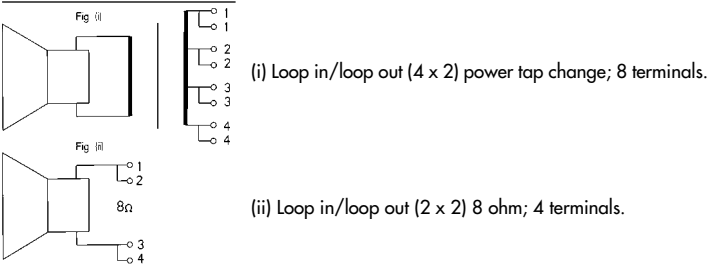


Specification

Rated Power:	30 Watts RMS continuous (at 77°F/25°C).
Certification:	UL Listed for USA and Canada – Hazardous locations: Class I, Div 2, Groups C & D, Class I, Zone 1, AExde IIB T3 Class I, Div 2, Groups A-D, Class I, Zone 1, AExde IIC T110°C UL Listing No. E203310 – Ordinary locations: Signalling Speaker. UL Listing No. 58847 CENELEC EN50014, 18, 19. IIB Version: Cert. No. Baseefa04ATEX0166X ATEX Ex II 2G EExde IIB T3 (Tamb. -50°C to +40°C) IIC Version: Cert. No. Baseefa04ATEX0167X ATEX Ex II 2GD EExde IIC T110°C (Tamb. -50°C to +40°C) Zones 1 and 2.
Material:	Body & horn in anti-static, UV stable, glass reinforced polyester. Mounting stirrup and fixtures in stainless steel.
Finish:	All natural or body and horn can be painted to client's requirements.
Output:	Groups C & D Version: Maximum output at 1W at 10 feet is 100dBA Maximum output at 30W at 10 feet is 112dBA Groups A-D Version: Maximum output at 1W at 10 feet is 97dBA Maximum output at 30W at 10 feet is 109dBA
Weight:	12lb/5.5kg approx.
Certified Temperature:	-67°F to +104°F (-50°C to +40°C).
Ingress Protection:	NEMA 4x & 6, IP66 & IP67.
Frequency Range:	370Hz to 8kHz.
Voice Coil Impedance:	8 ohms.
Transformer:	Used by combining the rated power tapings below.

Transformer Tappings	Power (W)
1:2	30
2:3	25
3:4	12
1:3	6
2:4	4
1:4	2

Transformer Tapping Options:



Terminals:	8 x 2.5mm ² .
Earth Continuity:	Available via optional earthing stud or by internal earth plate.
Mounting:	Via stirrup with ratchet facility.
Labels:	Optional stainless steel tag and duty labels.
Cable Entries:	Up to 2 x M20 with 1/2" NPT adaptors or 2 x M25 with 3/4" NPT adaptors into termination (EExe) chamber.

Ordering Requirements

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

DB16

Certification

Certification	Code
UL (C & D)*	UB
UL (A-D)†	UC
UL (ordinary locations)	UW

To order ATEX approved unit see European data sheet.

Unit suitable for gas groups.

*C & D

†A-D

Transformer

Transformer	Code
Yes	X*
No	N

*Std 100V.

Other voltages available, specify voltage.

Options

Option	Code
None	N
Duty label	D
Tag label	T
Internal earth continuity	E
Earth stud	B

Entries

Entries	Code
1 x ½" NPT	1M
2 x ½" NPT	2M
1 x ¾" NPT	1N
2 x ¾" NPT	2N

To specify certified plug, suffix appropriate code with 'P', e.g. 2BP is 2 x M20 entries with one certified plug.

Finish

Option	Code
Natural Black	N
Red	R
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.