## SPEAKERS – Up to 25 Watts EExd(e), Weatherproof DB4 Range





15W/20W/25W (Long Flare)

## Introduction

This range of loudspeakers, intended for use in potentially explosive gas and dust atmospheres, has a power rating of up to 25 watts and is suitable for use in all gas groups including hydrogen.

The flamepaths, flare and the body, are manufactured completely from a UV stable glass reinforced polyester. Stainless steel screws and sinter are incorporated thus ensuring a corrosion free product. A tapered flamepath is used to overcome the problems of assembly of parallel spigot flamepaths.

An optional Exe terminal chamber is available.

An uncertified version is available for use in non-explosive atmospheres.

Models compliant to BS 5839, part 8 are available.

8W (Short Flare)

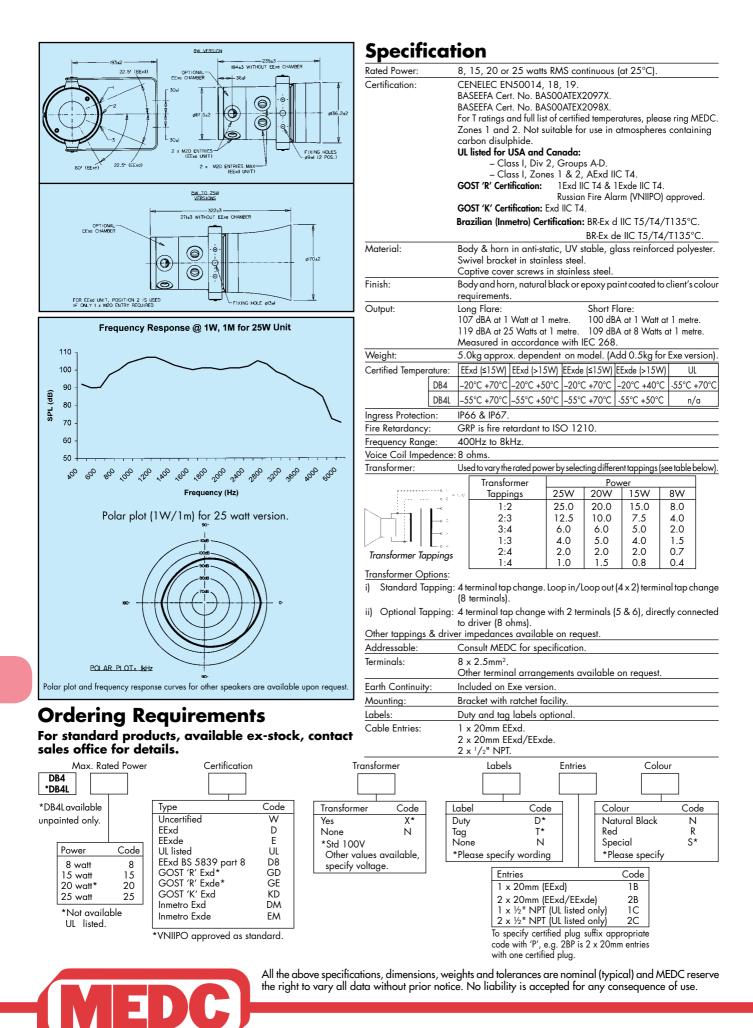
- ★ Zone 1, Zone 2 & non-Ex use.
- ★ EExd IIC T4/T5.
- ★ ATEX approved, Ex II 2GD.
- ★ BASEEFA certified.
- ★ UL listed for USA and Canada:
   Class I, Div 2, Groups A-D.
   Class I, Zones 1 & 2, AExd IIC, T4.
- ★ GOST 'R' & 'K' certified.
- ★ Australian (SAA) certified.
- ★ Brazilian (Inmetro) certified.
- ★ Optional Exe terminal chamber.
- ★ IP66 and IP67.
- ★ \*Certified temperature  $-55^{\circ}$ C to  $+70^{\circ}$ C.
- ★ GRP corrosion-free flamepaths.
- ★ 119dBA at 25 watts at 1 metre.
- ★ 8, 15, 20 and 25 watt versions.
- ★ BS 5839, part 8 compliant versions available.
- ★ Addressable capability.
- ★ Power tappings, via integral transformer.
- ★ Ratcheted swivel bracket.
- ★ Stainless steel sinter.
- ★ Stainless steel mounting bracket.
- ★ Tapered flamepath.
  - \*Depending on version.

MEDC Ltd, Colliery Road, Pinxton, Nottingham NG16 6JF, UK. Tel: +44 (0)1773 864100 Fax: +44 (0)1773 582800 MEDC International, 5829 West Sam Houston Parkway, North, Suite 1005, Houston, Texas 77041, USA. Tel: +1 (713) 937 9772 Fax: +1 (713) 937 9773

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6DS092/O



#### 11/07

## SPEAKERS – Up to 20 Watts EExde, Weatherproof DB10 Range





Introduction

This range of loudspeakers, intended for use in potentially explosive gas atmospheres, has a power rating of up to 20 Watts and is suitable for use in gas groups IIB and hydrogen.

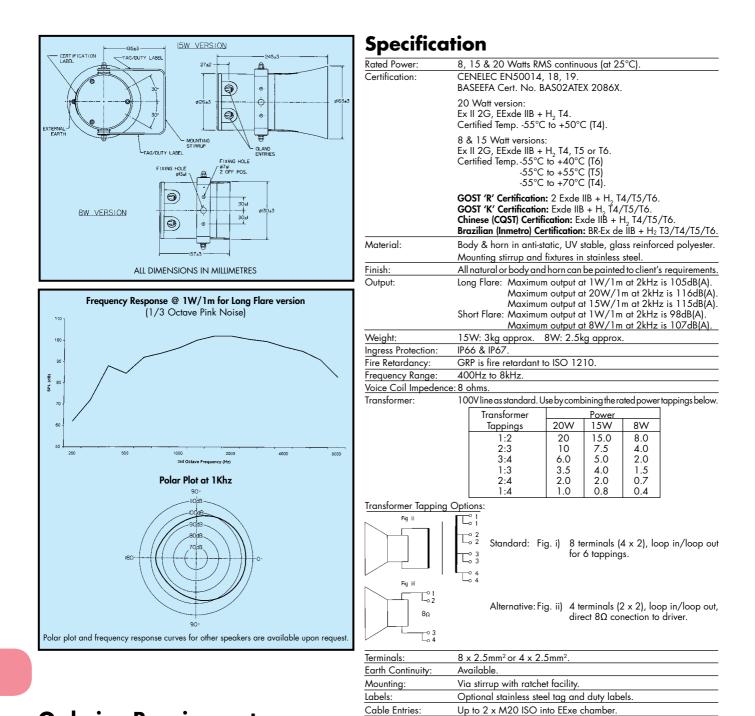
The flamepaths, flare and body, are manufactured from a UV stable glass reinforced polyester. Stainless steel screws and mounting stirrup are incorporated to ensure a corrosion-free product. 8W (Short Flare)

- ★ Zone 1, Zone 2 & non-Ex use.
- $\star$  EExde IIB + H<sub>2</sub> T4/T5/T6.
- ★ ATEX approved, Ex II 2G.
- ★ BASEEFA certified.
- ★ GOST 'R' & 'K' certified.
- ★ Chinese (CQST) certified.
- ★ Brazilian (Inmetro) certified.
- ★ IP66 and IP67.
- ★ Certified temperature  $-55^{\circ}$ C to  $+70^{\circ}$ C\*.
- ★ GRP corrosion-free flamepath.
- ★ 116 dB(A) at 20 Watts at 1 metre.
- ★ 8, 15 and 20 Watt versions.
- ★ Power tappings via integral transformer.
- ★ Ratcheted swivel mounting stirrup.
- ★ Stainless steel fixtures.
- ★ Earth continuity available.
  \*Model dependent.

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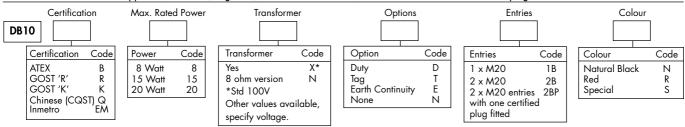
6DS111/G



#### **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. Standard products available ex-stock, as follows:

Product	Description
DB10B8XN2BPN	ATEX approved, 8 Watt (short flare), 100V line transformer, 2 X M20 entries with one certified plug fitted, natural black finish.
DB10B15XN2BPN	ATEX approved, 15 Watt (long flare), 100V line transformer, 2 X M20 entries with one certified plug fitted, natural black finish.
DB10B20XN2BPN	ATEX approved, 20 Watt (long flare), 100V line transformer, 2 X M20 entries with one certified plug fitted, natural black finish.



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.

## SPEAKERS – Up to 15 Watts for Harsh Industrial & Marine Environments DB14 Range

IP66/67 Weatherproof Corrosion Free All GRP



## Introduction

This range of loudspeakers has a power rating of 15 Watts and is suitable for use in demanding environments where a robust construction and high ingress protection rating is required.

The body is manufactured completely from a UV stable glass reinforced polyester which is also highly flame retardant and impact resistant. Stainless steel screws are incorporated thus ensuring a corrosion free product.

# MEDC can also provide a range of speakers suitable for use in potentially explosive atmospheres.

## For more information, refer to the catalogue or contact MEDC.

- ★ IP66 and IP67.
- ★ Temperature range  $-55^{\circ}$ C to  $+70^{\circ}$ C.
- ★ Corrosion resistant grey painted GRP.
- ★ 117dBA at 15 watts at 1 metre.
- ★ 100V line transformer.
- ★ Power tappings, via integral transformer.
- ★ Addressable capability.
- ★ Stainless steel ratcheted mounting bracket.
- ★ Earth continuity available.
- ★ BS5839 part 8 compliant version available.

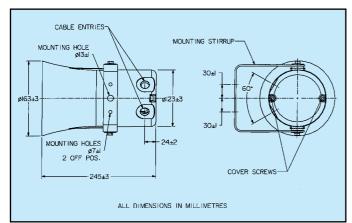
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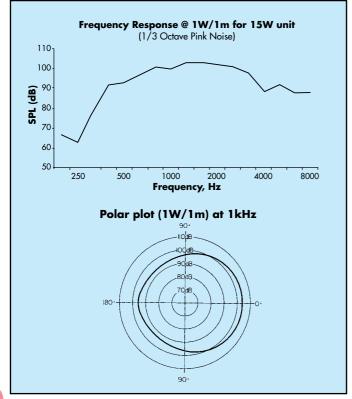
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6DS106/E





## **Specification**

-					
Rated Power:	15 watts RMS continuous (at 25°C).				
Material:	Body&horn in UV stable, glass reinforced polyester Swivel bracket in stainless steel. Cover screws in stainless steel.				
Finish:	Epoxy paint coated to client's colour requirements.				
Output:		tat 1W/1m at 900H at 15W/1m at 900H			
Weight:	2.6kg approx. a	dependent on mod	el.		
Temperature Range:	–55°C to +70°C				
Ingress Protection:	IP66 & IP67.				
Frequency Range:	400Hz to 7kHz				
Voice Coil Impedence	e: 8 ohms				
Addressable:	Consult MEDC for specification.				
Terminals:	8 x 2.5mm². Other terminal arrangements available on request.				
Earth Continuity:	Available.				
Mounting:	Bracket with rate	chet facility.			
Labels:	Duty and tag labels optional.				
Cable Entries:	2 x 20mm ISO.				
Transformer:	Used to vary the rated power by selecting different tappings (see table below).				
<b>,</b> 0 <sup>1</sup> ,	Transformer Tappings	Power 15W			
	1:2 2:3 3:4 1:3 2:4	15.0 7.5 5.0 4.0 2.0			
Transformer Tappings	1:4	0.8			
Transformer Options:					

Transformer Options:

i) Standard Tapping: Loop in/Loop out (4 x 2) terminal tap change (8 terminals).

ii) Optional Tapping: 4 terminal tap change with 2 terminals (5 & 6), directly connected to driver (8 ohms).

Other tappings & driver impedances available on request.

#### **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. **Standard products, available ex-stock, as follows:** 

Product	Description				
DB14XNG	15 Watt Industrial & Marine Loudspeaker, up to 117dB(A), 2 x 20mm entries, Grey painted GRP.				
DB14	Transformer	Option	Colour		
	TransformerCodeYesX*NoneN*Standard 100VOther voltages available, specify	Option Duty label Tag label Earth continuity BS5839, part 8 compliant Blanking Plug	Code D* T* E PT8 P	ColourCodePainted GreyGRedRSpecialS**Please specify	
	voltage.	None *Please specify wording	N		



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.

## SPEAKERS – Up to 30 Watts EExde, 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.

With an integral increased safety chamber, for termination, this unit offers both high output and easy installation.

In addition, the 25 Watt version still offers superior output with a higher ambient certified temperature (+65°C).

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.

- ★ Zone 1, Zone 2 & non-Ex use.
- ★ EExde IIB/IIC, T3/T4\*.
- ★ ATEX approved, Ex II 2G/Ex II 2GD\*.
- ★ BASEEFA certified.
- ★ UL listed for USA and Canada

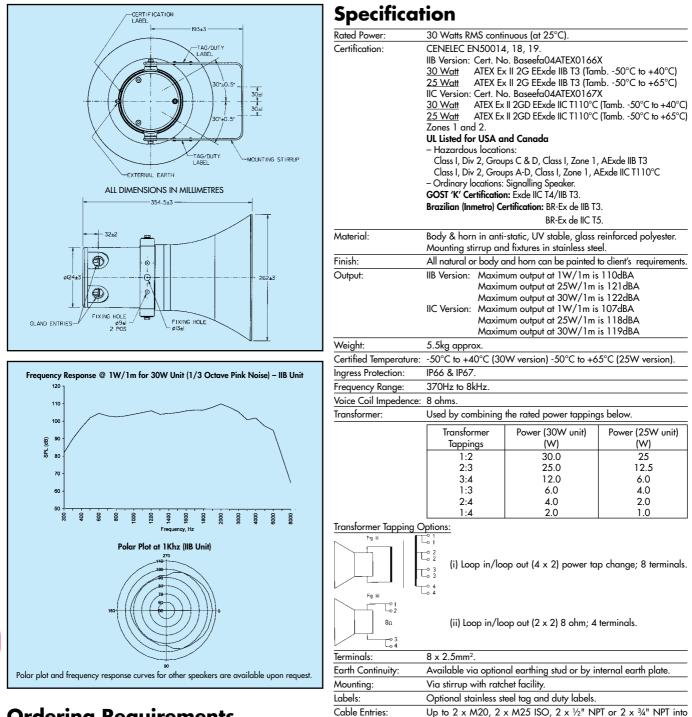
   Hazardous locations:
   Class I, Div 2, Groups A-D\*
   Class I, Zone 1, AExde IIB/IICT3/T4\*
   Ordinary locations: Signalling Speaker
- ★ GOST 'K'certified.
- ★ Brazilian (Inmetro) Certified.
- ★ IP66 and IP67.
- ★ Certified temperature  $-50^{\circ}$ C to  $+65^{\circ}$ C\*.
- ★ GRP corrosion-free flamepath.
- ★ Up to 122dBA at 30 Watts at 1 metre\*.
- ★ 25 and 30 Watt versions.
- ★ Power tappings via integral transformer.
- ★ Ratcheted swivel mounting stirrup.
- ★ Stainless steel fixtures.
- ★ 100V line or 8 ohm versions available. \*Model dependent.

MEDC Ltd, Colliery Road, Pinxton, Nottingham NG16 6JF, UK. Tel: +44 (0)1773 864100 Fax: +44 (0)1773 582800 MEDC International, 5829 West Sam Houston Parkway, North, Suite 1005, Houston, Texas 77041, USA. Tel: +1 (713) 937 9772 Fax: +1 (713) 937 9773

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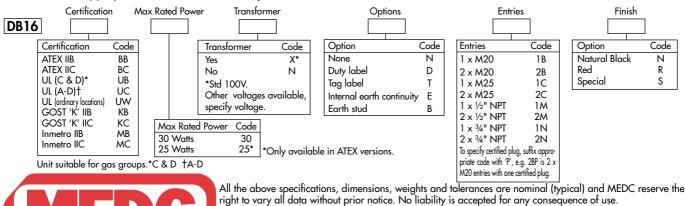
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6DS119/D



#### **Ordering Requirements**

termination (EExe) chamber. 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. For standard products available ex-stock, contact sales office for details.







## Introduction

This loudspeaker, intended for use in Zone 2, potentially explosive gas and dust atmospheres, has a power rating of up to 15 Watts and is suitable for use in all gas groups including hydrogen.

The 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.

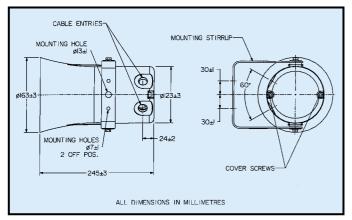
- ★ Zone 2 use.
- ★ EEx n ll T4.
- ★ ATEX compliant, Ex II 3 GD.
- ★ BASEEFA tested.
- ★ IP66 & 67.
- ★ Ambient temperature -55°C to +55°C.
- ★ 117dbA at 15 Watts at 1 metre.
- ★ Power tappings via integral transformer.
- ★ Stainless steel ratcheted swivel mounting stirrup.
- ★ Stainless steel fixtures.

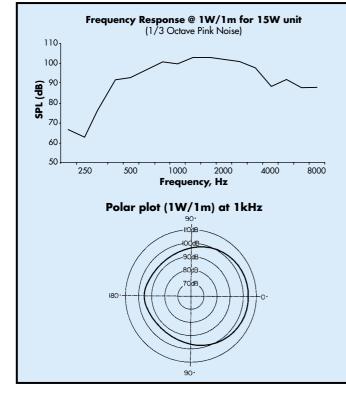
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6DS115/C





## **Specification**

Rated Power:	15 watts RMS continuous (at 25°C).			
Compliance:	CENELEC      EN50014, 21.        EEx nA II T 135°C (-55°C to +55°C) T4, Zone 2.			
Material:		ti-static, UV stable, gl		
	polyester.	il-static, UV stable, gi	ass reinforcea	
		and fixtures in stain	less steel.	
Finish:	All natural or bo client requirement	ody and horn can b its.	pe painted to	
Output:		at 1W/1m at 900H at 15W/1m at 900H		
Weight:	2.6kg approx.			
Ambient Temperature:	$-55^{\circ}$ C to $+55^{\circ}$ C.			
Ingress Protection:	IP66 & IP67.			
Fire Retardancy:	GRP is fire retardant to ISO 1210.			
Frequency Range:	400Hz to 7kHz.			
Voice Coil Impedence:	8 ohms.			
Transformer:	Used by combining the rated power tappings below.			
	Transformer	Power		
······································	Tappings	1 <i>5</i> W		
6 <sup>8</sup> 0H/	1:2	15.0		
	2:3	7.5		
• 3	3:4 1:3	5.0		
	2:4	4.0 2.0		
Transformer Tappings	1:4	0.8		
(Option (iii) shown)	1.4	0.8		
Transformer Options:				
Standard: i)	Loop in/Loop ou 8 terminals.	t (4 x 2) power tap o	change;	
Optional: ii)	Loop in/loop out	(2 x 2 ) 8 ohm; 4 te	erminals.	
iii)	4 terminal tap change with 2 terminals (5 & 6), directly connected to driver (8 ohms).			
Terminals:	Up to 8 x 2.5mm	2.		
Earth Continuity:	Available.			
Mounting:	Via stirrup with ratchet facility.			
Labels:		s steel tag and duty	labels.	
	2 x M20 ISO.			

### **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. Standard product, available ex-stock, as follows:

Product	Description					
DB18XNN	EEx nA II compliant, 15 Watt, 100V line transformer, 2 x M20 entries, natural black finish					
DB18	Transformer	Option		Colour		
	Transformer Code	Option	Code	Colour Code		
	Yes X* Transformer and X8 8 ohm terminals None N (direct to driver) *Standard 100V Other voltages available, specify	Duty label Tag label Earth continuity Blanking Plug None *Please specify wordin	D* T* P N	Natural Black N Red R Special S* *Please specify		
	voltage.					



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.





## Introduction

This music quality projector loudspeaker, intended for use in Zone 2, potentially explosive gas and dust atmospheres, has a power rating of up to 15 Watts and is suitable for use in all gas groups including hydrogen.

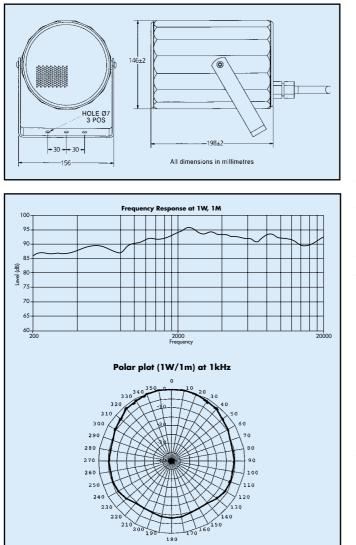
Designed for optimum sound reproduction, this rugged loudspeaker is ideal for PA and background music systems in industrial and commercial environments.

The body is manufactured in aluminium and powder coat finished to RAL 9010. Stainless steel screws and mounting stirrup are incorporated to ensure a corrosion-resistant product.

- ★ Zone 2 use.
- ★ EEx n ll T4.
- ★ ATEX compliant, Ex II 3 GD.
- ★ BASEEFA tested.
- ★ IP54.
- ★ Ambient temperature -55°C to +55°C.
- ★ 104dbA at 15 Watts at 1 metre.
- ★ Power tappings via integral transformer.
- ★ Stainless steel mounting stirrup.
- ★ Aluminium body.
- \* 100V line or 8Ω versions.

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## **Specification**

-				
Rated Power:	15 watts RMS continuous (at 25°C).			
Compliance:	CENELEC EN50014, 21. EEx nA II T 135°C (-55°C to +55°C) T4, Zone 2.			
Material:	Body in aluminium. Mounting stirrup and fixtures in stainless steel.			
Finish:	Powder coated white to RAL 9010 as standard – car be painted to client's requirements.			
Output:	Maximum output at 1W/1m at 900Hz is 92 dBA Maximum output at 15W/1m at 900Hz is 104 dBA			
Weight:	2.4kg approx.			
Ambient Temperature:	−55°C to +55°C.			
Ingress Protection:	IP54.			
Frequency Range:	120Hz to 20kHz.			
Voice Coil Impedence:	8 ohms.			
Transformer:	Used by combining the rated power tappings below			
Cable Entry:	M20 gland.			
Terminals:	4 x 2.5mm <sup>2</sup> .			
Mounting:	Via stirrup.			
Dispersion at 1000Hz Degrees° Conical	130.			
Imput Impedance (ohms)	12.5k, 7.7k, 3.7k, 2.5k, 1.3k, 666.			

#### **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. Standard product, available ex-stock, as follows:

Product	Description					
DB19XW	EEx nA II compliant, 15 Watt, 100V line transformer, white to RAL 9010.					
DB19	Transform	ner	Finish			
	Transformer	Code	Colour	Code		
	Yes None	X* N	White to RAL 901 Special	0 W S*		
	*Standard 100V.		*Please specify			



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.

## SPEAKERS – Up to 8 Watts Exde, Weatherproof DB20 Range





## 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.

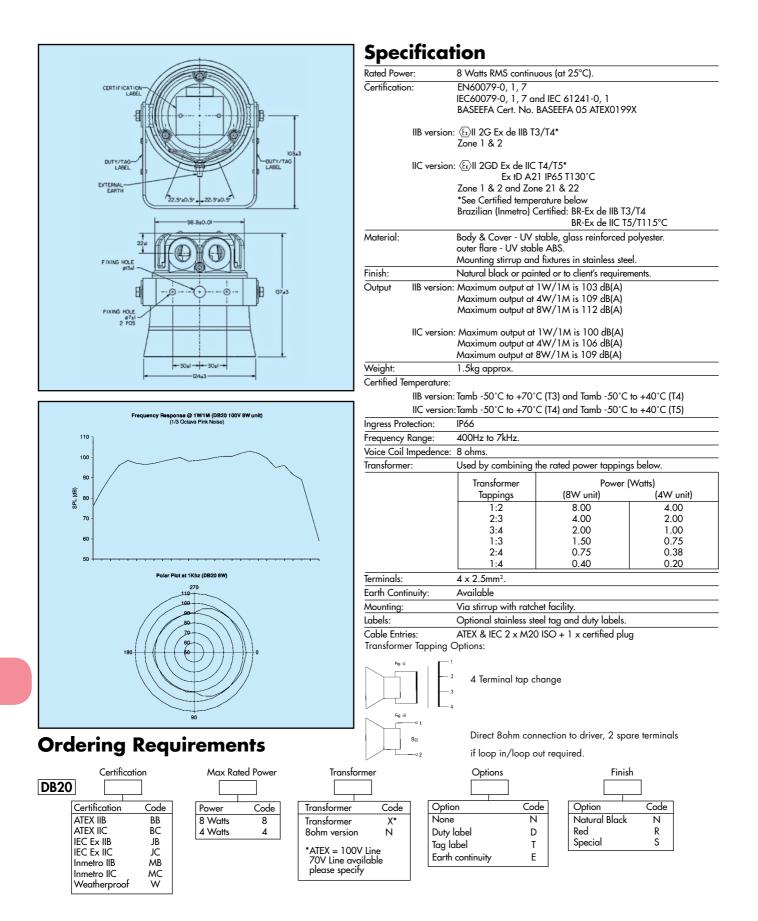
Stainless steel screws and mounting stirrup are incorporated to ensure a corrosion-free product.

- ★ 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.
- $\star$  BASEEFA certified.
- ★ Brazilian (Inmetro) certified.
- ★ IECEx Approved
- ★ IP66.
- ★ Certified temperature -50°C to +70°C\*.
- ★ GRP corrosion-free flamepath.
- ★ 112dB(A) at 8 watts at 1 metre (IIB Version)
- ★ Power tappings via integral transformer.
- ★ Ratcheted swivel mounting stirrup
- ★ Stainless steel fixtures.
- ★ 100V or 70V line versions available.
- $\star$  Earth continuity available.

\*Temperature class relates to ambiant temperature (see over)

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