

# ETH20MDLOUD/TR

- Zones 1, 2, 21, 22
- Output from 100 dB to 112 dB
- Ex d protection
- IP66



*Entry for connection*







# ETH20MDLOUD/TR series Loudspeaker

The international standards for safety in industrial environments establish the mandatory installation of suitable audible warning device that can be activated in case of alarm, emergency or danger for the safety of workers which operate at the modern manufacturing processes. The explosion-proof loudspeakers ETH20MDLOUD series have been designed for use in potentially explosive atmospheres in presence of explosive gases and dusts. They have a high degree of protection (IP66) to withstand the harsh off-shore and on-shore plants environmental conditions. They are suitable for connection to standard amplification system with output 100V, to alarm systems and for public address.










The chamber of acoustic compression is separated from the outer atmosphere through a special filter of sintering.

They are equipped with a transformer offering the possibility to adapt and select the sound level according to the real needs of the installation point.

**Application sectors:**

							
Oil refineries	Chemical and petrochemical plants	Onshore plants	Waste water purification	Aircraft storage facilities Hangars	Combustible liquid depots	Transit areas	Analysis laboratories

## CERTIFICATION DATA

<b>Classification:</b>	Group II	Category 2GD		
<b>Installation:</b> EN 60079.14	zone 1 - zone 2 (Gas)	zone 21 - zone 22 (Dust)		
<b>Marking:</b>	CE  II 2 GD - Ex d IIB+H <sub>2</sub> T6/T5 Gb - Ex tb IIIC T85°C/T100°C Db IP66			
<b>Certification:</b>	ATEX	CEC 13 ATEX 156		
<b>Standards:</b>	CENELEC EN 60079-0: 2012, EN 60079-1:2007, EN 60079-31:2009 and EUROPEAN DIRECTIVE 2014/34/UE			
 <b>Class temperature:</b>	 85°C (T6)	 100°C (T5)		
 <b>Ambient temperature:</b>	 Standard -20°C +40°C 	 Special -40°C +60°C 		

This equipment can be used in an environment containing explosive atmosphere and with the presence of hydrogen.

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### MECHANICAL FEATURES

<b>Body, cover and horn cone:</b>	Light aluminium alloy
<b>Gasket:</b>	EPDM acid, hydrocarbon resistant
<b>Bolts and screws:</b>	Stainless steel
<b>Mounting:</b>	Adjustable galvanized steel bracket
<b>Entries:</b>	1 x 3/4" Rc UNI ISO 7/1 for entries with conduit or cable gland
<b>Coating:</b>	Epoxy coating Ral 7000 (Squirrel grey)


### ELECTICAL FEATURES

<b>Rated voltage:</b>	100 V			
<b>Audio line:</b>	16 Ohm			
<b>Output:</b>	6 W	12 W	20 W	25 W
<b>Sound level:</b>	100 ÷ 102 dB	104 ÷ 106 dB	107 ÷ 108 dB	109 ÷ 112 dB
<b>Frequency range:</b>	650 ÷ 10000 Hz	450 ÷ 9000 Hz	400 ÷ 9000 Hz	350 ÷ 10000 Hz

### ACCESSORIES AVAILABLE / SPECIAL REQUESTS

Mounting bracket in stainless steel  
 Cable gland: FGAB2BK for armoured cable or FB2BK for non-armoured cable  
 Epoxy vinyl coating in different colours  
 Special execution Ex 2GD Ex d IIC T6/T5 Gb  
 Different threads  
 Horn cone in anodized aluminium

# ETH20MDLOUD/TR series selection chart

Code	Rated voltage	Output	Frequency level	Sound level Db/m	Weight Kg	
ETH20MDLOUD/TR	100 V	6W-12W-20W-25W	650 - 10000 Hz	100 - 112	3,5	

## DIMENSIONAL DRAWING

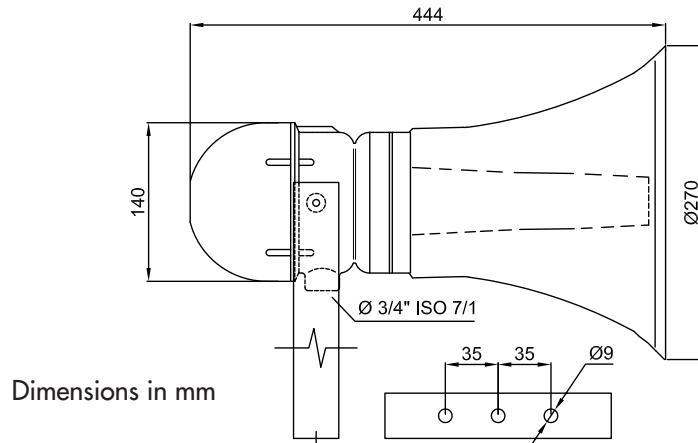



ILLUSTRATION	DESCRIPTION	MODEL	FEATURES	CODE	KEY
	Cable gland		For models and codes, visit <a href="http://www.cortemgroup.com">www.cortemgroup.com</a>	FGAB2BK FB2BK	