VIBRATION TRANSMITTER

TR-27

The integrated transmitter TR-27 measures the absolute vibrations of any rotating machine support and it is able to interface directly in 2 wires technique (current loop 4 ÷ 20 mA) to an acquisition system

The transmitter, secured directly on machinery, generates an electric signal (4÷20 mA) which is proportional respectively to vibration velocity or acceleration.

The transmitter is made of an AISI 316L steel body with machine connection thread; the connection to the acquisition system is effected by means of an integral cable. It is available both a standard version (PVC shielded cable and nickel-plated brass cable gland) and a special version for aggressive environment (EFTE shielded armoured cable and AISI 316L steel cable gland).

NOTE: The transmitter is available in different configuration versions and does not need any set-up or maintenance.

The transmitter is certified for application in classified area as:

€ II 1 G Ex ia IIC T6, T5, T4 Ga (ATEX)

Ex ia IIC T6, T5, T4 Ga (IECEx)

The transmitter is certificate SIL 2 for functional safety



TECHNICAL CHARACTERISTICS	
Composition	 AISI 316L stainless steel integrated transmitter body
Power supply	■ 24 Vdc (10 ÷ 35 Vdc) current loop 4 ÷ 20 mA (2 wires)
External connections	 MIL-C-5015 2 poles connector (conductors max section 2,5 mm²) 4 poles M12 connector
Environmental	■ - 60°C ÷ + 120°C ■ IP 65 EN 60529/10.91 standards
Measure type	omnidirectional seismic (absolute vibration)
Application axis	any
Dynamic field	■ ± 18 g
Transverse sensitivity	■ < 5 %
Linearity	■ ± 3% - 75 Hz
Dynamic performances	■ ±5% / 10Hz-1kHz ■ -3db / 1,5Hz - 2kHz
Insulation	■ ≥10 ⁸ Ω between signal and case
Standard machine connection thread	see tables "MACHINE CONNECTION THREAD"
Maintenance	■ no maintenance is needed
Electrical connections	bipolar shielded cable
Mounting torque	■ 5÷10 N-m







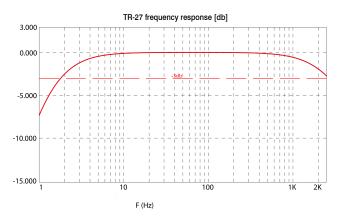








TR-27



ORDER INFORMATION

в с TR - 27 / 🔲 / 🔲 / 🔲 / 🔲

A: MEASURING FIELD

0	0 ÷ 10 mm/s RMS
1	0 ÷ 20 mm/s RMS
2	0 ÷ 50 mm/s RMS
3	0 ÷ 100 mm/s RMS
4	0 ÷ 1 g RMS
5	0 ÷ 5 g RMS
6	0 ÷ 10 g RMS
7	0 ÷ 25,4 mm/s (0 ÷ 1 in/s) RMS
8	0 ÷ 12,7 mm/s (0 ÷ 0,5 in/s) RMS
S	special to be defined

B: MACHINE CONNECTION THREAD

0	M8x1,25
1	1/4'' - 18NPT
2	1/4'' - 28UNF
3	M6x1 (only for non certificate version)

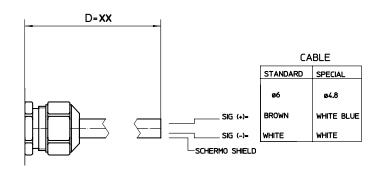
C: VERSION

0	Standard	
1	Special	

D: CABLE LENGTH pitch 1m

XX length in meters

D 49 9 (M8 ,M6,1/4"28 UNF 14 (1/4"18 NPT) Key 27 М8 M6 1/4"28 UNF 1/4*18 NPT



E: CERTIFICATIONS

0	standard
8	😥 II 1 G Ex ia IIC T6, T5, T4 Ga (ATEX)
В	Ex ia IIC T6, T5, T4 Ga (IECEx)

OPTIONAL ACCESSORIES

HAZARDOUS AREA

ZENER BARRIER Z787 (for hazardous area)

800208

SAFETY AREA

PLC

3787		
		Ü

PLASTIC TAG 040STR000

85MA810 CY002

B5MAG10 CY002

STAINLESS STEEL TAG

980710835

All the data and features mentioned in this catalogue are purely for information and do not constitute any commitment on the part of our company, which reserves the right to make any and all alterations it may consider suitable without notice.



CEMB S.p.A.

Via Risorgimento, 9 23826 MANDELLO DEL LARIO (LC) Italy www.cemb.com

Vibration analysis division:

phone +39 0341 706111 +39 0341 706299 e-mail: stm@cemb.com



Address: Unit 6, No. 52, Jouybar St. Tehran - 1415795361, IRAN

Tel: +98-21-88996358-60 Fax: +98-21-88992367 www.cemb-iran.com info@cemb-iran.com