# TR-26 ATEX

### CERTIFIED ACCORDING TO ATEX 94/9/CE DIRECTIVE

### **FUNCTION**

The integrated transmitter TR-26 measures the absolute vibrations of any rotating machine support and it is able to interface directly in 2 wires technique (current loop 4  $\div$  20 mA) to an acquisition system (PLC or DCS).

The transmitter is certified for application in classified area as

Ex II 2 G Ex ia IIC T6, T5, T4 Gb



#### **GENERAL DESCRIPTION**

The transmitter, secured directly on machinery, generates an electric signal  $(4 \div 20 \text{ mA})$  which is proportional respectively to vibration velocity or acceleration. The transmitter is made of an AISI 316L body with machine connection thread; the connection to the acquisition system is effected by means of a MIL-C-5015-2 poles connector.

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

TECHNICAL CHARACTERISTICS		
Composition	AISI 316L stainless steel body	
Power supply	24 Vdc (10 ÷ 35 Vdc) current loop 4 ÷ 20 mA (2 wires)     maximum load – see Figure 1	
External connections	MIL-C-5015 2 poles connector (conductors max section 2,5 mm²)	
Environmental	• - 50°C ÷ + 120°C • IP 65 EN 60529/10.91 standards	
Measure type	Omnidirectional seismic (absolute vibration)	
Dynamic field	• ± 18 g	
Transverse sensitivity	• < 5 %	
Linearity	• ± 2% - 75 Hz	
Dynamic performances	<ul> <li>±3% / 10Hz – 1kHz - see Figure 2</li> <li>-3db / 1.5Hz – 2.5kHz</li> </ul>	
Insulation	• ≥10 <sup>8</sup> Ω between signal and container	
Application axis	• Any	
Standard machine connection thread	• M8x1,25 • 1⁄4"-18NPT • 1⁄4"-28UNF • M6x1	
Maintenance	No maintenance is needed	
Parameters to be defined when ordering	Measuring field     Machine connection thread     ATEX certification	
Mounting torque	• 5÷10 N-m	
Certification	• Ex II 2 G Ex ia IIC T6, T5, T4 Gb	









## TR-26 ATEX

Figure 1

Maximum load on current loop

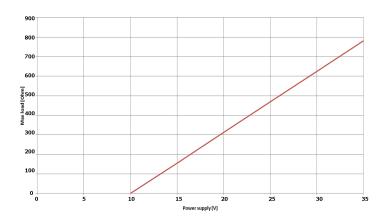
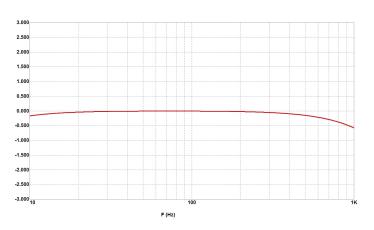


Figure 2 Frequency response [db]



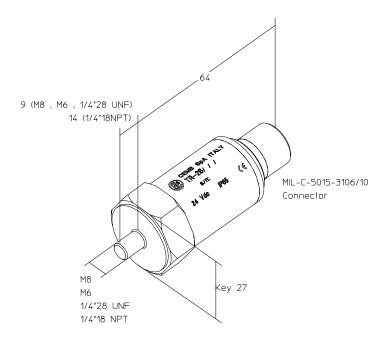
### **ORDER INFORMATION**

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

C:	ATEX CERTIFICATION
2	ATEX II 2 G Ex ia IIC T6/T5/T4 Gb

### **Dimensions**



### PURCHASE ORDER EXAMPLE:

TR - 26 / 1 / 0 / 2

1= measuring field 0÷20 mm/s RMS

0= connection thread M8x1,25

2= ATEX certification



### CEMB IRAN

Mobile: +98-912-313-1941 Fax: +98-21-8809-5858 E-Mail: info@cemb-iran.com www.cemb-iran.com