

Yekan VT612 Vibration Transmitter

4-20mA Output Vibration Velocity Sensor

Datasheet

Rev. V1.1



Description

Yekan's vibration velocity sensor delivers precise, reliable velocity measurements with a 4-20 mA output, easily integrating with PLCs, DCS, and SCADA systems. It offers multiple RMS measurement ranges to suit diverse applications and features a robust design for reliable performance in demanding industrial environments.

Features:

- **4-20 mA Output:** Provides a current proportional to vibration velocity, ensuring accurate monitoring of vibration levels.
- **Long-Distance Signal Transmission:** Capable of transmitting signals over long distances without degradation, making it suitable for large industrial setups.
- **Multiple Connection Options:** 2 Pin Connector for direct connection.

Ordering Information

VT612 VIBRATION TRANSMITTER TOP EXIT 2PIN CONNECTOR, 4-20mA Output

VT612-ARB-CE

A: Measurement Range

0	0-12.7 mm/sec (0-0.5 IPS)
1	0-25.4 mm/sec (0-1 IPS)
3	0-10 mm/sec (0-0.4 IPS)
4	0-20 mm/sec (0-0.8 IPS)

B: Frequency Range ± 3 dB

2	3-1500 Hz
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C: Connection & Cable Type

1	2pin MIL-C-5015 Connector Without Integral Cable
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Specifications

Dynamic Performance:	
Sensitivity ±5%	0.8 mA/mm/s
Output	4-20 mA
Measurement Type	RMS Velocity
Frequency Response ±5%	10~1000 Hz
Frequency Response ±3dB	3~1500 Hz
Max Transverse Sensitivity	<5%
Amplitude Linearity	≤2%
Resolution	0.01 mm/s
Maximum acceleration (pk)	10 g
Electric Performance:	
Supply Voltage (Vs)	15~30 VDC
Load Impedance	50 (Vs-12) Ω
Electric Case Insulation	≥10 ⁸ Ω
Dielectric Voltage Withstand	≥1000 VAC
Environment Performance:	
Shock Limit (pk)	2000 g
Operation Temperature	-40~+85°C
Physical Parameter:	
Case Material	304 Stainless Steel
Weight	130 g
Mounting	1/4-28
Piezoelectric Materials	PZT-5
Connector	2-pin MIL-C-5015
Transmission Distance	≥100 m
Dimension	29*29*59 mm
Mounting Stud:	
1/4-28 Convert 1/4-28 or 1/4-28 Convert M8	1 piece

Figures

2 Pin Connector	
Connector Pin	
A	(+) Loop Power mA Output
B	(-) Common

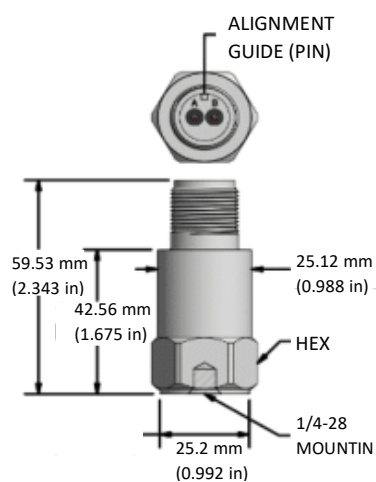


Figure 1. Sensor diagram

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Tehran, Iran
Phone: 021-88196217 or yekan-vibro.com/support