

# 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 $\pm 3$ dB

2	3-1500 Hz
---	-----------

##### C: Connection & Cable Type

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



## Specifications

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

## Figures

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

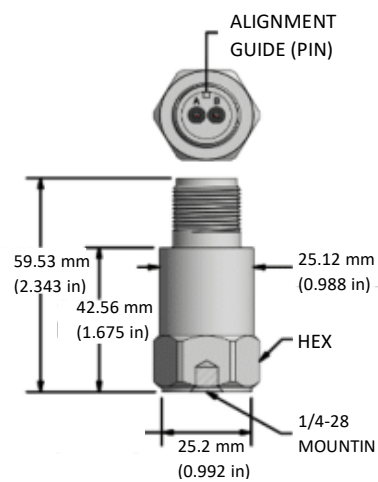


Figure 1. Sensor diagram

Copyright 2024 Yekan Company. All rights reserved.



Yekan Tajhiz company is acting in the field of supply, consulting and engineering services associated with vibration measurement and monitoring equipment and works as the middle east representative of Bently Nevada, Metrix and CTC brands.

Tehran, Iran  
Phone: 021-88196217 or [yekan-vibro.com/support](http://yekan-vibro.com/support)