

# 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 ±3dB

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 $\pm 5\%$	0.8 mA/mm/s
Output	4-20 mA
Measurement Type	RMS Velocity
Frequency Response $\pm 5\%$	10~1000 Hz
Frequency Response $\pm 3\text{dB}$	3~1500 Hz
Max Transverse Sensitivity	<5%
Amplitude Linearity	$\leq 2\%$
Resolution	0.01 mm/s
Maximum acceleration (pk)	10 g

### Electric Performance:

Supply Voltage (Vs)	15~30 VDC
Load Impedance	50 (Vs-12) $\Omega$
Electric Case Insulation	$\geq 10^8 \Omega$
Dielectric Voltage Withstand	$\geq 1000$ 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	$\geq 100$ m
Dimension	29*29*59 mm

### Mounting Stud:

1/4-28 Convert 1/4-28 or 1/4-28 Convert M8	1 piece
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## Figures

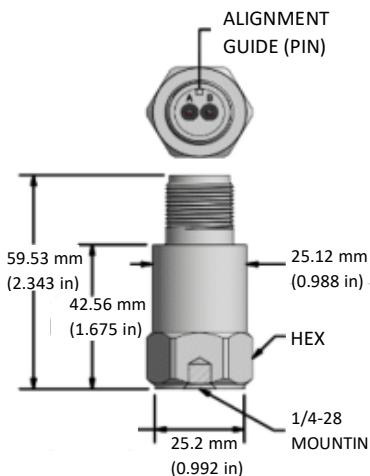
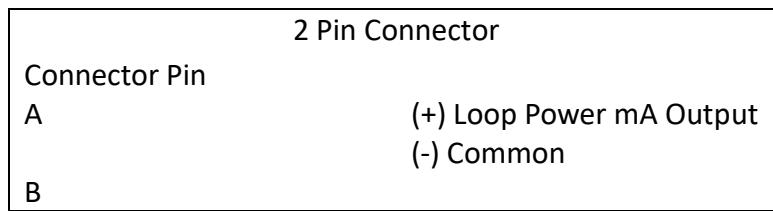


Figure 1. Sensor diagram

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