

## VT9218 Vibration Velocity Transmitter



### Overview

VT9218 is a digital economical vibration transmitter 4-20mA signal output proportional to vibration and connect directly to PLC & DCS or any 4-20mA device. Sophisticated design requires compact mounting space.

VT9218 adopts the principle of piezoelectric measurement; the design is ingenious, relatively connection. The transmitter is applying for all non-explosion-proof applications and any rotating machine.

HART apply unified device description language DDL.



### Product Feature

Loop Power Connection

Output a 4-20mA signal proportional to the vibration velocity

MIL-C-5015 Connector

Digital circuit

Anti-electromagnetic and RF interference

Connect directly to PLC & DCS or other control systems

HART communication protocol is optional, supports HART V7.0 and above

### Application

|            |                 |           |
|------------|-----------------|-----------|
| Blower     | Centrifugal     | Separator |
| Motor      | Generator       | Pump      |
| Fan        | Turbocharged    | Engine    |
| Compressor | Machine Turbine |           |

## VT9218 Vibration Velocity Transmitter

### Technical Specification

**Range:** Full scale range See order Guide BBB

**Accuracy:**  $\pm 2\%$

**Linear:**  $\pm 1\%$

**Maximum Acceleration:** 12g, pk

**Sensitivity:** 100mV/g ( $\pm 5\%$ )

**Frequency Response:** 2-3500Hz( $\pm 3$ dB)

**Mounting Direction:** Any

**Sensitive Axis:** Same as stud axis

**Supply Voltage:** 12-30VDC

**Maximum Load ( $R_L$ ):**  $R_L = 50 \times (V_s - 12) \Omega$

**Wiring Connection:** Optional

**Operation Temp:**  $-55^\circ\text{C} \sim +75^\circ\text{C}$

**Storage Temp:**  $-60^\circ\text{C} \sim +125^\circ\text{C}$

**Enclosure Material:** 304SS & 316L

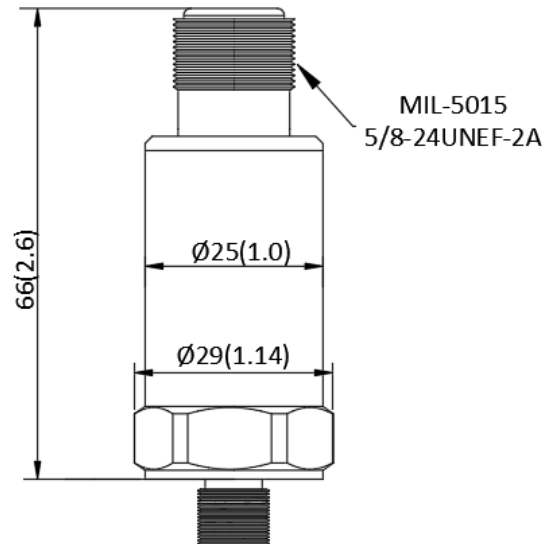
**Case Isolation:**  $\leq 400\text{A/m}$

**Enclosure Rating:** IP66

**Amplitude Detection:** RMS Value=PK $\times 0.707$

**Mounting:** Order Guide C

### Dimension



Unit: mm(in)

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### Order Guide VT9218A-BBB-CDD-E

#### A: Connection

S Top 2 Pin MIL Connector

H Integral Cable length 6 Inches

If you need HART protocol, add code H after S/H

#### BBB: Full Scale Range

Velocity Peak

121 25mm/s(1.0ips),pk

122 10mm/s(0.4ips),pk

123 16mm/s(0.65ips),pk

124 20mm/s(0.8ips),pk

125 50mm/s(2.0ips),pk

126 32mm/s(1.26ips),pk

Velocity Rms

151 25mm/s(1.0ips),rms

152 10mm/s(0.4ips),rms

153 16mm/s(0.65ips),rms

154 20mm/s(0.8ips),rms

155 50mm/s(2.0ips),rms

156 32mm/s(1.26ips),rms

#### C: Mounting Stud

1 M8×1.25-8 (Standard)

2 M6×1-8

3 M10×1-8

4 1/4"-20UNC

5 1/4"-28UNF

6 M8×1-8

7 M10×1.25-8

8 M12×1.75-8

X Customize (Contact Factory)

#### DD: Frequency

01 2-1500Hz

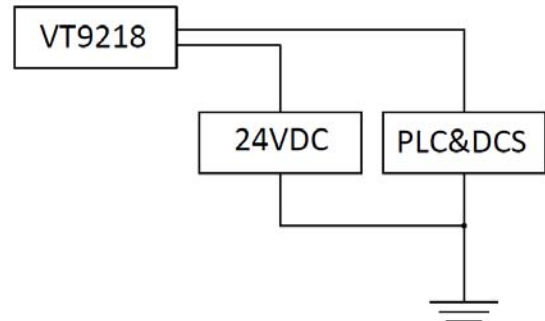
02 10-3500Hz

#### E: Shell Material

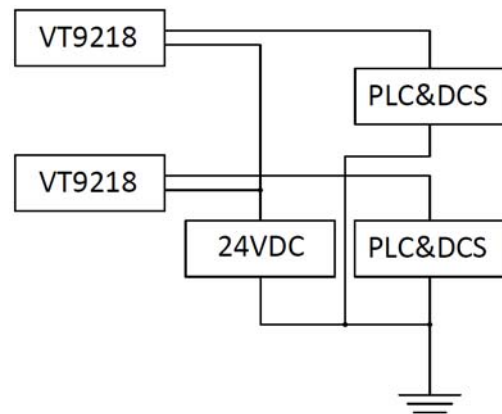
1 304SS(Standard)

2 316L

### Wiring Diagram



Wiring diagram of single transmitter



Wiring diagram of multiple transmitters