

VT9218 Economical Vibration 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.

HART Version number 7

Product Feature

Loop Power Connection

MIL-C-5015 Connector

Digital circuit

Anti-electromagnetic and RF interference

HART Communication protocol

Integrated anti-surge protection

Connect directly to PLC & DCS or other control systems

Application

Blower Centrifugal Separator

Compressor engine

Motor Generator Pump

Fan turbocharged

Machine turbine



航插型

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Technical Specifications

Range: Full scale range See order Guide BBB,

Accuracy: $\pm 2\%$

Linear: $\pm 0.5\%$

Maximum Acceleration: 12g, pk

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

Frequency Response: 5-3500Hz ($\pm 3\text{dB}$)

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: See order guide A

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: True (RMS) Vibration, $\text{RMS Value} = \text{PK} \times 0.707$

Mounting: Order Guide C

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Order Guide 4-20 mA

VT9218A-BBB-CDD-E

A: Connection

- S Top 2 Pin MIL Connector
- SH Top 2 Pin MIL Connector, HART
- H Integral Cable length 6 Inches
- HH HART Integral Cable length 6 Inches

BBB: Full Scale Range

Velocity Peak

- 121 25mm/s, pk
- 122 10mm/s, pk
- 123 16mm/s, pk
- 124 20mm/s, pk
- 125 50mm/s, pk

Velocity Rms

- 151 25mm/s, rms
- 152 10mm/s, rms
- 153 16mm/s, rms
- 154 20mm/s, rms
- 155 50mm/s, 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)

D: Frequency

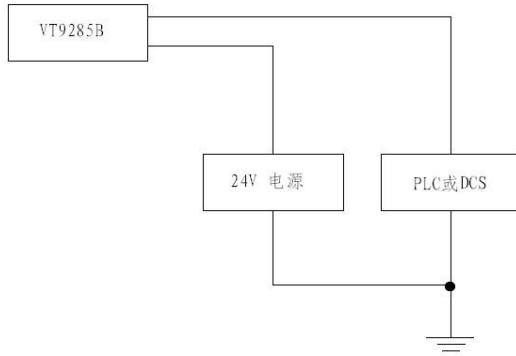
- 01 5-2000Hz
- 02 5-3500Hz
- 03 10-2500Hz

E: Enclosure Material

- 1 304SS (Standard)
- 2 316L

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Application Wiring Diagram



单个变送器安装示意图