

## VT100 Series Vibration Transmitters

All industrial equipment vibrates. Poor balance, misalignment, looseness will all cause the vibration levels to increase. A sure indication that maintenance is required. Vibration transmitters are an inexpensive way to continuously monitor machine vibration levels and locate problems before catastrophic machine failures occur.

The VT100 series of vibration transmitters are two wire, loop powered transmitter which can feed the vibration level of your operating machinery to a data logger, panel meter, most PLC's or process control computers.

The solid state accelerometer and circuit design provides a 4 to 20 mA signal proportional to the vibration velocity.

A low cost, yet highly accurate and rugged transmitter, the VT100 series is ideal for use with all types of rotating machinery, even those which previously were considered uneconomical to monitor.

The transmitter easily mounted with threaded 1/4-28 stud (included with transmitter).



VT100 Series  
Vibration Transmitters



VT100 Series  
Straight Connector or 90° Connector (Select which one  
that suits available clearance).

### SPECIFICATION

VT100 0 to 1 in/sec

VT200 0 to 2 in/sec

VT500 0 to 5 in/sec

Frequency Range 5 Hz to 1500 Hz

Supply Voltage 12 to 40 Vdc unregulated

Isolation 800V circuit to case

Electrical Connection Microfast high temp. & oil resistant connector and cable (10ft supplied)

Temp Range -10° to 100°C

Rating NEMA 4

Case 316 Stainless Steel

Mount 1/4-28 stud mount (included )

## Vibration Warning Levels

The vibration levels listed below may be used as a guide for selecting and setting the limits on vibration level. The recommended levels are intended to serve as a guide for machines of similar types. These typical machinery vibration values are useful for comparison purposes, general machinery acceptance, monitoring satisfactory performance.

Vibration Velocity	Class of Machinery			
	Class-1	Class-2	Class-3	Class-4
0.01 ips Good	Good	Good	Good	
0.02 ips Good	Good	Good	Good	
0.04 ips Fair	Good	Good	Good	
0.06 ips Fair	Fair	Good	Good	
0.08 ips Rough	Fair	Fair	Good	
0.1 ips Rough	Rough	Fair	Fair	
0.2 ips N/A	Rough	Rough	Fair	
0.4 ips N/A	N/A	Rough	Rough	
0.6 ips N/A	N/A	N/A	Rough	
0.8 ips N/A	N/A	N/A	Rough	
1.0 ips N/A	N/A	N/A	N/A	

class 1 Individual components, integrally connected with the complete machine in its normal operating condition. Small Electric Motors, Precision Machines, Turbines

class 2 Medium sized machinery without special foundations, rigidly mounted engines, or machines on special foundation. Gear Boxes, Pumps, M-G Sets, Fans.

class 3 Large prime movers mounted on heavy, rigid foundations. Compressors, Blowers, Hammer mills, Engines.

class 4 Large prime movers mounted on relatively soft, light weight structures. Crushers, Reciprocating Machines