



Features

- Converts dynamic IEPE accelerometer signals into 4-20mA signals representing RMS, peak or peak-peak values.
- Converts temperature(10mV/° C) signals into 4-20mA signals.
- Provides buffered raw signal output on a BNC connector for data collection or signal analysis.
- Provides dynamic signal terminals for hard wired online systems.
- Provides optional filtering for custom band measurements.
- Slim, DIN rail mounted package.

VT-3510 series

Vibration Signal Transmitter

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SPECIFICATIONS

Output, 4-20mA loop current	Output current	4-20 mA
Buffered raw output	Gain	1.0
	AC couple	0.95 Hz
Input	Sensor type	IEPE accelerometer or Thermometer
	Sensor sensitivities	Accelerometer 10 mV/g, 100 mV/g, 500 mV/g
		Thermometer 10 mV/ °C (DC signal)
Sensor powering	Open circuit voltage	20 V ±1V
	Constant current	4 mA ±10%
Environmental	Power	Voltage DC 24V
		Consumption < 3W
	Operating temperature	-20°C to 60°C
	Fuse	120 mA (Self resettable)
Physical	Mounting	snap fit, 35 mm DIN rail
	Width	17.5 mm (0.69 inch)
	Depth, front of BNC to back of DIN rail	125 mm (4.9 inch)
	Height	100 mm (3.9 inch)

PART NUMBERING SYSTEM AND MEASUREMENT FEATURE

VIBRATION MEASUREMENT

VT-3510 –

Output vibration type

- A** : Acceleration
- V** : Velocity
- D** : Displacement

Low Frequency Cut Off (-3dB)

- 2** : 2Hz(not available in Displacement)
- 5** : 5Hz
- 10** : 10Hz
- 20** : 20Hz

High Frequency Cut Off (-3dB)

- 1K** : 1KHz
- 2K** : 2KHz
- 5K** : 5KHz(not available in Displacement)
- 10K** : 10KHz(not available in Velocity and Displacement)

Sensor's Sensitivity

- 10** : 10 mV/g(not available in Displacement)
- 100** : 100mV/g
- 500** : 500 mV/g

Detection type

- P** : peak
- R** : RMS
- PP** : peak to peak

4-20mA Full Scale Range

for Acceleration

- 5E** : 5G
- 10E** : 10G
- 20E** : 20G
- 50M** : 50 m/s²
- 100M** : 100 m/s²
- 200M** : 200 m/s²

for Velocity

- 0.5E** : 0.5 ips
- 1E** : 1 ips
- 2E** : 2 ips
- 15M** : 15 mm/s
- 25M** : 25 mm/s
- 50M** : 50 mm/s

for Displacement

- 10E** : 10 mil
- 20E** : 20 mil
- 25E** : 25 mil
- 200M** : 200 um
- 500M** : 500 um
- 1000M** : 1000 um

TEMPERATURE MEASUREMENT

Part Number : VT-3510-TEMP

Frequency Range : DC, Full scale output: 120°C
Sensor's sensitivity: 10mV/°C

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G-TECH INSTRUMENTS INCORPORATION

www.g-tech-inst.com

0800-225665

info@g-tech-inst.com