

4 to 20 mA IOT transmitter

Acceleration, Velocity, Displacement.

VIBRATION TRANSMITTER

Model : TRVB-801

ISO-9001, CE, IEC1010

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Lutron

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The Art of Measurement

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FEATURE

- * Applications for industrial vibration monitoring : All industrial machinery vibrates. The level of vibration is a useful guide to machine condition. Poor balance, misalignment & looseness of the structure will cause the vibration level increase, it is a sure sign that the maintenance is needed.
- * Frequency range 10 Hz - 1 kHz, sensitivity relative meet ISO 2954.
- * Professional vibration meter supply with vibration sensor & magnetic base, full set.
- * Acceleration, Velocity, Displacement measurement.
- * RMS value measurement.
- * Zero & Span adjustment VR.
- * Separate vibration probe with magnetic base, easy operation.

GENERAL SPECIFICATION

Measurement	Velocity, Acceleration, Displacement		
Function	<i>Acceleration, Velocity : RMS</i> <i>Displacement : p-p (peak-peak)</i>		
Unit	<i>Measurement</i>	<i>Metric</i>	<i>Imperial</i>
	Accel	m/s ² , g	ft/s ² ,
	Velocity	mm/s, cm/s	inch/s
	Displacement	mm	inch
Frequency range	10 Hz to 1 KHz <i>* Sensitivity relative during the the frequency range meet ISO 2954 Refer to table 1, page 28</i>		
Analog output	Analog output: 4 to 20 mA. <i>* linear to temperature.</i>		
Loop impedance	Max. 500 Ω@24 V DC.		
Power supply	Isolated Power 12VDC to 30VDC@20 mA. <i>* Ripple< 2.5%</i>		
Operation Temp.	0°C to 70°C /32°F to 158°F.		
Operation humidity	Max. 85% RH.		
Dimensions	120 mm x 96 mm x 43 mm		
Weight	164 g.		
Enclosure rating	Meter : IP63 , sensor probe: IP60		
Dimension	<i>Meter :182 x 73 x 47.5 mm</i> <i>Vibration sensor probe:Round 16 mm Dia. x 37 mm. Cable length : 1.2 meter.</i>		
Accessories Included	Instruction manual 1 PC Vibration sensor with cable 1 PC Magnetic base 1 PC		

ELECTRICAL SPECIFICATIONS (23± 5 °C)

Acceleration (RMS)

Unit	m/s ²
Range	0.5 to 199.9 m/s ²
Resolution	0.1 m/s ²
Accuracy	±(5 % + 2 d) reading @ 160 Hz, 80 Hz, 23 ± 5 °C
Calibration Point	50 m/s ² (160 Hz)

Remark : RMS : To measure the true RMS value.

Velocity (RMS)

Unit	mm/s
Range	0.5 to 199.9 mm/s
Resolution	0. 1 mm/s
Accuracy	$\pm(5 \% + 2 d)$ reading @ 160 Hz, 80 Hz, $23 \pm 5 ^\circ C$
Calibration Point	50 mm/s (160 Hz)

Remark : RMS : To measure the true RMS value.

Displacement (p-p)

Unit	mm
Range	1.999 mm
Resolution	0.001 mm
Accuracy	$\pm(5 \% + 2 d)$ reading @ 160 Hz, 80 Hz, $23 \pm 5 ^\circ C$
Calibration Point	0.141 mm (160 Hz)

Remark : p-p : To measure the Peak to Peak value.

* Spec. tested under the environment RF Field Strength less than 3 V/M & frequency less than the 30 MHz only.

* Appearance and specifications listed in this brochure are subject to change without notice.

TRVB-801+190808

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