4-20 mA vibration transmitter modules iT150 series

SPECIFICATIONS

Sensor types	IEPE accelerometers, IEPE piezovelocity transducers, IEPE dual output (vibration and temperature) sensors
Sensor senstivities accepted: Accelerometer Piezovelocity Dual output ¹	10, 100, 500 mV/g 10, 100, 500 mV/ips 10 mV/°C
Frequency response: Acceleration ² Velocity	0.2 Hz - 20 kHz (-3 dB, -0.1 dB) 0.2 Hz - 5 kHz
Sensor powering: Open circuit voltage Constant-current	24 VDC, ±5% 4.5 mA, ±20%
Maximum dynamic signal input, for linear response	20 Volts peak-to-peak
OUTPUT, 4-20 mA loop current	
Full scale, ±2%	see Ordering information on page 2
Output type	true RMS, equivalent peak, equivalent peak-peak, true peak
Maximum 4-20 mA loop load resistance	500 Ω
Accuracy	±0.2% of full scale
Turn on time	< 30 seconds
OUTPUT, buffered dynamic	
Gain, RTI sensor	1.0 ±2%
Noise RTO, broadband, 1 Hz - 10 kHz, RMS	≤0.0001 Volts
Output type	DC-coupled
ENVIRONMENTAL	
Power: Voltage (Vin) Current draw	11 - 32 VDC 125 mA at 24 VDC (3 watts max)
Temperature, operating, ambient	–40° to +70°C
PHYSICAL	
Mounting	snap into 35 mm DIN rail
Dimensions: Width Depth (front of BNC to back of DIN rail) Height	22.5 mm (0.86") 127 mm (4.98") 100 mm (3.90")







Key features

٠	Temperature	measurement
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- · Slim 22.5 mm case
- Front panel BNC for dynamic signal output
- Manufactured in ISO 9001 facility

For dimensions and ordering information, see page 2.

For system architecture, see page 3.

Notes: ¹ Compatible with Wilcoxon models 786T and 787T (measurement range: 0° to 120°C, input signal: 0 - 1.2 VDC). ² True peak frequency response: 10 Hz to 25 kHz.

CE

Note: Due to continuous process improvement, specifications are subject to change without notice. This document is cleared for public release.

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Dimensions



Ordering information



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System architecture





IO Port	Terminal numbers and signal assignments
Vibration sensor	 1 - No connection 2 - Temperature sensor (in T+) 3 - Signal in / Sensor Power (IN+) 4 - Circuit common (COM)
Temperature	5 - Circuit common (COM)
dynamic output	6 - Temperature out (T)
Sensor dynamic	7 - Circuit common (COM)
output	8 - Sensor out (SENS)
4-20 mA Loop B	13 - B-
Temperature	14 - B+
4-20 mA Loop A	15 - A-
Vibration	16 - A+
Power input	17 - P- 18 - P+
Not used	19 20



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