



I.I.S.

Vibration Sensor



I.I.S. Wireless Vibration Meter Sensor uses an accelerometer to measure vibration speed and frequency and report on 3 axes. The sensor reports speed (mm/s) and frequency (Hz) on all three axes, and duty cycle (how much of the report interval vibration was present).

IIS_9-IN-AC-VM

The sensor measures the vibration intensity of the system to which it is attached. The sensor uses an accelerometer to capture g-force on all axes and then calculates speed and frequency from that acceleration data. The Vibration Meter reports the duty cycle, or how long the sensor was measuring vibrations throughout the heartbeat.

Sensor comes in an IP65, NEMA 4X, CE rated, sealed, and weatherproof enclosure. It is powered by a single, replaceable, Industrial grade 3.6 V battery (included).

Innovative Industrial Solutions



I.I.S.

Vibration Sensor

Supply voltage	2.0–3.8 VDC (3.0–3.8 VDC using power supply) *	
Current consumption	0.2 μ A (sleep mode), 0.7 μ A (RTC sleep), 570 μ A (MCU idle), 2.5 mA (MCU active), 5.5 mA (radio RX mode), 22.6 mA (radio TX mode)	
Operating temperature range (board circuitry and battery)	-40°C to +85°C (-40°F to +185°F) **	
Included battery	Max Temperature Range	-40° to +85°C (-40° to +185°F)
	Capacity	1500 mAh
Optional solar feature	Solar panel	5VDC/30mA (53mm x 30mm)
	Charging temperature range	0° to 45°C (32° to 113°F)
	Max temperature range	-20° to 60°C (-4° to 140°F)
	Included rechargeable battery	600 mAh / >2000 charge cycles (80% of initial capacity)
	Solar efficiency	Optimized for high and low-light operation ***
Speed measurement range	0 to 25.5 mm/s	
Speed measurement resolution	0.1 mm/s	
Frequency measurement range	10 to 200 Hz	
Frequency measurement resolution	1 Hz	
Vibration intensity threshold range	0 to 1.701 g	
Vibration intensity threshold resolution	0.063 g	
Accelerometer g-Force Range	+/- 2 g	
Integrated memory	Up to 3200 sensor messages	
Wireless range	1,200+ ft non-line-of-sight	
Security	Encrypt-RF™ (256-bit key exchange and AES-128 CTR)	
Weight	4.7 ounces	
Enclosure rating	NEMA 1, 2, 4, 4x, 12 and 13 rated, sealed and weather proof	
UL Rating	UL Listed to UL508-4x specifications (File E194432)	
Certifications	   Industry Canada	900 MHz product; FCC ID: ZTL-G2SC1 and IC: 9794A-G2SC1. 868 and 433 MHz product tested and found to comply with: EN 300 220-2 V3.1.1 (2017-02), EN 300 220-2 V3.1.1 (2017-02) and EN 60950

Innovative Industrial Solutions, Inc.

2830 Skyline Drive Russellville, AR 72802

Phone (479) 968-4266

Fax (479) 890-9072

www.i-i-s.net

Innovative Industrial Solutions



I.I.S.

Vibration Sensor

Other I.I.S Wireless Sensor Options

 TEMPERATURE	 TEMPERATURE 3 FOOT PROBE	 RTD HIGH TEMPERATURE	 RTD LOW TEMPERATURE	 DUCT TEMPERATURE	 WATER TEMP	 4X QUAD TEMPERATURE	 THERMOCOUPLE
 HUMIDITY	 WATER DETECT	 WATER ROPE	 MOTION DETECTION	 OPEN / CLOSED	 DRY CONTACT	 0-200 VDC METER	 0-500 VOLT METER
 0-20 AMP AC CURRENT METER	 150 AMP AC CURRENT METER	 1-50 VDC	 24-500 VAC	 0-20 mA CURRENT METER	 SINGLE-INPUT PULSE COUNTER	 BUTTON PRESS	 ACTIVITY
 TILT	 IMPACT DETECT	 G-FORCE SNAPSHOT	 VIBRATION METER	 LIGHT METER	 ULTRASONIC	 THREE PHASE CURRENT METER	 PRESSURE
 AIR VELOCITY	 DIFFERENTIAL AIR PRESSURE	 PM _{2.5} AIR QUALITY	 CONTROL	 THERMOSTAT			

Innovative Industrial Solutions, Inc.

2830 Skyline Drive Russellville, AR 72802

Phone (479) 968-4266

Fax (479) 890-9072

www.i-i-s.net