Sensor & Gateway

Features

- Full spectral vibration and temperature sensor
- Multiple sensor readings per day
- Ability to invoke manual readings
- Calculates RMS, Max, and MIN g Vibration
- Time Domain Data for FFT analysis
- Dust and water-resistant enclosures (IP65) for sensor
- Magnet or epoxy mounting
- Noise removal using low-pass and high-pass filters
- 2-mile communication range between sensor and gateway

Sensor Environmental and Regulatory Qualifications

- Temperature Operation Range: -40°C to +60°C (-40°F to 140°F)
- Humidity Range: 0-90%
- Bandwidth: 1.56Hz-6.4kHz
- Enclosure Ratings: IP65, NEMA 1,2,4,4X,12,13, UL-508
- Probe Rating: IP68
- Flammability Rating: UL94 HB
- RoHS compliant

Sensor Data

- Triaxial accelerometer
- Probe Operating Temperature: -40°C- 105°C (-40°F to 221°F)
- Probe Length: 2 meter shielded cable
- Batteries: 6 AA (L91)
- DC External Power (optional): 5-12V DC
- Measurements up to +/-16g, 16-bit @100Hz-25.6kHZ sample rate

Gateway
Actual Size: 11.5"H (with antennae) x 4.1"W x 4.25"D

Sensor
Actual Size: 3.6"L x 5.75"W x 2.1"H

Specifications

- Wireless Frequency: 900MHz or 868MHz
- 128 AES encryption
- Sensor: 3.6"L x 5.75"W x 2.1"H
- 3" clearance height for sensor installation
- Sensor Weight: 1.4 lbs
- Gateway: 11.5"H (with antennae) x 4.1"W x 4.25"D
- Gateway Weight: 3 lbs

APPLICATIONS

Wireless Vibration Measurement
- Motors
- Pumps
- Compressors

Wireless Industrial Vibration
- Robotic Equipment
- Conveyors

Future Fail Detection
- Industrial Machines

Vibration Monitoring
- Conduits
- Pipes
- Air Passages

Software

Dashboard

- Easy to understand temperature and vibration charts
- Peak overall velocity graphs for vibration analysis
- Isolate X, Y, or Z Axis for vibration analysis
- Acceleration, velocity, displacement and FFT frequency peaks available for vibration analysis
- Toggle between Celsius and Fahrenheit
- Easy to recognize notification features designed to reduce alert fatigue
- High-speed vibration sampling rates of 50Hz, 100Hz, 200Hz, 400Hz, 800Hz, 1600Hz, 3200Hz, 6400Hz, 12800Hz, and 25600Hz

Customization

- Easily map your equipment with your terminology
- Time domain waveforms available
- Spectral waveforms available (FFT)
- Create notification groups and escalation groups (SMS or email)