

Sensor & Gateway

Features

- High-Grade K type Thermocouple connector and probe
- Vibration, Thermocouple, AC Split Core Current, and Ambient Temperature Sensor
- Calculates RMS and MAX g Vibration, RMS Velocity Vibration, RMS Displacement, and Peak Vibration Frequency
- Raw Time Domain Data for FFT analysis
- Multiple sensor readings per day
- Ability to invoke manual readings
- Dust and water-resistant enclosures (IP65) for sensor
- Noise removal low-pass and high-pass filter for sensor
- 2-mile communication range between sensor and gateway

Sensor Environmental and Regulatory Qualifications

- Temperature Operation Range -40°C to +85°C (-40°F to 185°F)
- Vibration Sample rate up to 25.6kHz
- Frequency Range (Bandwidth) up to 1.56Hz to 6.4kHz
- AC Current Range 0-1000A RMS Measurement with variable CT configurations
- Thermocouple probe comes with a 1 meter, 24 AWG connection cable
- Thermocouple Temperature Measurement up to 260°C (500°F) accuracy of $\pm 2.2^{\circ}\text{C}$
- Main Box IP Rating -IP65, NEMA 1,2,4,4X,12,13, UL-508
- Probe IP Rating IP 68
- Flammability Rating of UL94 HB
- RoHS Compliant

Sensor Data

- Triaxial Accelerometer
- Probe Operating Temperature -40°C to +125°C (-40°F to 257°F)
- Configurable sampling options of 100A, 200A, 600A, 1000A
- AC Split Core Current Sensor Length - 1.25 meter
- Vibration Prob e- 1 Meter
- Thermocouple Probe Length - 1 Meter
- Multiple Probe Mounting Option 1/4 NPT, 1/4-28 UNF, and Magnet Mount
- Batteries - 6 AA (L91)
- DC External Power (optional) 5-12V DC

Gateway

Actual Size: 13.75"L (with antennae) x 5.5"W x 2.5"H



Sensor

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

Specifications

- Wireless Frequency 900MHz or 868MHz
- AES-128 encryption
- Sensor: 3.6"L x 5.75"W x 2.1"H
- 3" clearance height for sensor installation
- Sensor Weighs 1-4 lbs (weight dependent on configuration)
- Gateway: 13.75"L (with antennae) x 5.5"W x 2.5"H
- Gateway Weighs 1.15 lbs

APPLICATIONS



Industrial Current Monitoring



Electrical Behavior Analysis

- Pumps
- Motors
- Generators



Future Fail Detection

- Industrial Machines



Handheld Current Monitoring Equipment

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, 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)