

Wireless accelerometer with edge computing for condition monitoring

VBOX1™ utilizes a compact, wireless accelerometer to provide easy machine health monitoring



Tri-axial Vibration Sensor with Wireless Communication

- Low power wireless communication
- 150ft line of sight WiFi
- Auto detect orientation of sensor for automatic setup and data integrity



Long Battery Life

- Up to 2+ years of battery life, based on 1 tri-axial data set daily at room temperature



Compact Design

- Corrosion resistant anodized aluminum case with standard 1/4 in-28 stud mount
- 1.7" hex x 3.4" height



Reliable

- Data is easily transmitted via an email attachment, preventing interference and drop out
- Rugged, IP65 fully-molded protection
- Designed for industrial environments



The easiest sensor installation you'll ever do.

Today, wireless sensors are enabling IoT for customers by expanding remote condition monitoring systems into more critical equipment. The Vbox1 wireless accelerometer provides top performance in continuous health monitoring of critical machinery in industrial applications.

The Vbox1 not only satisfies demand for machine condition data, but is easily scalable and can be installed in a complex plant environment without causing worry about signal integrity. Data is shown on a machine health dashboard.

Due to its wireless nature, the Vbox1 vibration sensor is a breeze to install and monitor on plant equipment.

VBOX1™

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VBOX1™

Ideal Industry Applications

- Remote condition monitoring
- Reduced installation costs—place sensor on machine and note the serial number
- Designed for harsh environments
- Quick and scalable deployment
- Cost effective monitoring for large plants
- Secure and interference-free data transmission



Simple Set-Up, Extreme Ease of Use

- Magnetic or stud mount installation
- Simple installation—mount sensor(s) and record location
- Easy online training—learn the system basics in as little as 15 minutes
- Machine health dashboard—display up to 200 wireless sensors. Auto updates as data is received
- Intuitive interface—enables you to easily see the current health of your machines

Key Benefits

- Acceleration, temperature, and battery life output
- Compact design
- Up to 2-year battery life
- New machine health learn cycle (50 measurements in 1 hour)
- Auto detection of machine on or off state
- -20°C to +60°C operating temperature
- Usable frequency range: 3Hz-2000Hz

System Specifications

- Wireless low power condition monitoring tri-axial accelerometer
- 5 sec time waveform and dataset creation
- Corrosion resistant aluminum & polymer housing
- 2kHz bandwidth with 20 bit, ADC auto-range for precision data collection
- 2-year battery life and easily replaceable battery
- 10k Lines of measurement resolution

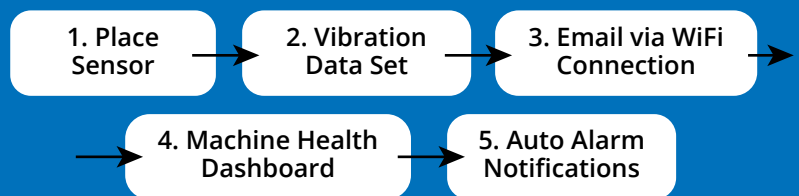
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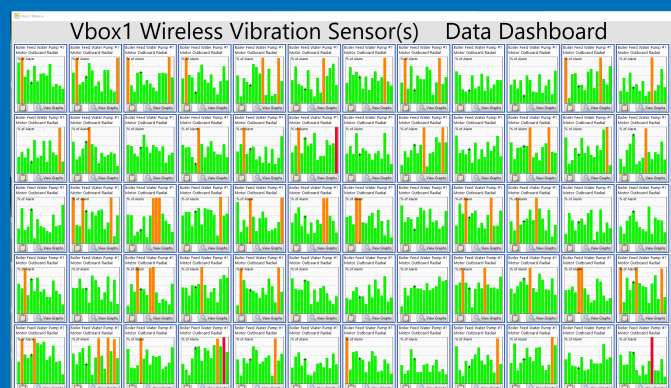
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Machine Health Flow



Machine Health Dashboard

Sample of a machine health dashboard:



Warranty and Upgrades

- **Hardware Coverage:** 1-year bumper-to-bumper coverage on sensor and battery.
- **Software and Service Coverage:** 1 year of MTS VBox1 transducer software and 1 year license of the "Machine Health Dashboard" software.
- **Post-Warranty Coverage:** 1-year maintenance plans can be perpetually purchased to ensure the latest software updates, transducer calibration, and hardware reliability.