

# VibeSense Tri-axial

## Wireless Vibration Sensor



VibeSense Tri-axial Wireless Accelerometer is a wireless solution for condition monitoring of vibration in machineries. It packs a precise accelerometer, a powerful onboard processor and a Bluetooth Low Energy radio module.

The onboard accelerometer sensor guarantees an accurate and simultaneous acceleration measurement in three orthogonal directions that can be used for various industrial applications.

The powerful processor provides onboard calculation capability for FFT, RMS calculation, peak finding, as well as raw signal collection with a user configurable sampling rate and data block size.

The Bluetooth Low Energy module enables communication with smart devices to allow the user to send commands to the accelerometer to initiate data collection for onboard processing or transmitting back for further analysis on a phone or tablet. Without the hassle of data cables, measurements can be made more efficiently and safely.

VibeSense Tri-axial Wireless Accelerometer runs on a rechargeable Li-Po battery.



Bluetooth Low Energy



Water/dust-proof for industrial environment



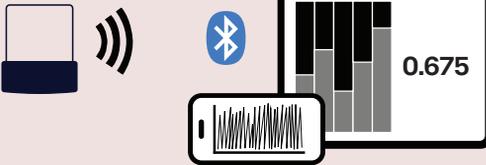
Frequency-Domain FFT viewer



Vibration meter ISO 10816



Time-domain signal and logger



### What's Included

- VibeSense Wireless Tri-axial Accelerometer
- 1/4-28 Accelerometer Mounting Set Screw
- Protective Carrying Case
- VibraTestPro App for iOS & iPad

### Optional:

- Two-Pole 85 lbs Magnetic Base (Optional)
- Round Magnetic Base (Optional)

### Software Features - VibraTestPro (iPhone and iPad)

- iPhone & iPad compatibility
- Three axis simultaneous reading for X, Y and Z
- Adjustable sampling rate and window size
- Vibration meter with ISO10816 (customizable) severity indicator
- Interactive vibration time waveform and FFT spectrum viewer
- Velocity and acceleration readings (metric & imperial)
- Auto peak detection cursor, manual cursor, and top 5 peaks detector
- Distance cursor, harmonic and sidebar cursors
- Vibration signal raw data saving and exporting in CSV and WAV formats
- Vibration signal local saving within the App
- Plant-Machine-Test point structure for easy data management
- Automatic easy test report templates for motors, pumps, and other standard machines

### Software Features - MultiGage (iPhone, iPad and Android)

- Overall RMS vibration readings in acceleration and velocity from either of X, Y or Z
- RMS log and record option with adjustable rates in single and continuous modes

VibeSense Tri-axial	Specification
Accelerometer Type	Tri-axial
Measurement Range	±40g
Frequency Range (±3 dB)	1 to 1000 Hz
Resonant Frequency	5500 Hz
ADC	16 bits
Sampling Rate	500 to 4000 Hz
Data Block Size	256 to 4096 samples
Data Transmission Range	Up to 98ft
Working Temperature	-4 to 140°F (-20 to 60°C)
Dust/Water Protection	IP66
Battery	Li-Po battery
Battery Life	80hrs
Charging Time	3 to 4hrs
Accelerometer Weight	80hrs
Mounting Screw	1/4-28 screw
Connectivity	Bluetooth Low Energy

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The software & hardware can be customized.  
Contact Motionics for details.

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