

VibeSense Tri-axial

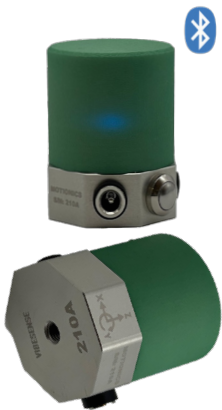
Wireless Vibration Sensor



Motionics VibeSense Tri-axial accelerometer is a wireless sensor solution for condition monitoring of vibration in machineries. It packs MEMS accelerometer, a powerful onboard processor, hall effect switch, wireless charging, and a Bluetooth Low Energy radio module.

The MEMS accelerometer sensor guarantees accurate 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 user-configurable sampling rates and data block sizes. 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 a data cable, measurements can be made more efficiently and safely.

VibeSense Tri-axial 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



Included in the Package:

- VibeSense Wireless Tri-axial Accelerometer
- 1/4-28 Accelerometer Mounting Set Screw
- Protective Carrying Case
- VibeTestPro iPhone & iPad App (for vibration analysis)

Optional:

- Two Pole 85 lbs Magnetic Base

Software Features:

- Wireless sensor connection via Bluetooth Low Energy
- iPhone & iPad compatibility
- Vibration meter with ISO10816 (customizable) severity indicator
- Interactive real-time waveform and FFT spectrum viewer
- Customizable graph appearance: background color, line color, line thickness, grids
- Velocity and acceleration readings (metric & imperial)
- Auto Peak detection cursor, manual cursor, and top 5 peaks detector
- Distance cursor, harmonic cursor and sideband cursor
- Vibration raw signal recording with adjustable sampling rate and data length
- Vibration signal export in CSV and WAV formats
- Vibration signal local saving
- Plant-Machine-Test point structure for easy data management

VibeSense	Specification
Accelerometer Type	MEMS
Sensitivity	100 mV/g
Measurement Range	±40 g
Frequency Range (±3 dB)	1 - 1000 Hz
Resonant Frequency	5500 Hz
ADC	16 bits
Sampling Rate	500 to 4000 Hz
Date Block Size	256 to 4096 samples
Spectrum Range	1 to 10,000 Hz
Wireless Data Transmission Range	Up to 65 ft
Operating Temperature	(-4 - 140)°F
Dust/Water Protection	IP66
Battery	Rechargeable Li-Po battery

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

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