

Motionics VibeSense wireless accelerometer is a wireless sensor solution for condition monitoring of rotating machinery. It packs a piezoelectric accelerometer, a powerful onboard processor, and a Bluetooth Low Energy radio module.

The piezoelectric accelerometer sensor guarantees accurate acceleration measurement in 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 runs on a rechargeable Li-Po battery with Qi wireless charging enabled.

Connecting the laser tachometer through the connector on top turns VibeSense accelerometer into a novel rotor balancing tool. With the step by step guide in our mobile app, anybody can accomplish single-plane and two-plane rotor balancing effortlessly.



- Bluetooth Low Energy
- Rechargeable with wireless charging
- 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 Accelerometer
- Qi Wireless Charging Pad
- 1/4-28 Accelerometer Mounting Set Screw
- Magnet Key for Sensor on/off Switch
- Protective Carrying Case
- VibraTestPro iPhone & iPad App (for vibration analysis)

Optional:

- iPad Mini with Industrial Protective Case
- Two Pole 85 lbs Magnetic Base
- Adjustable Laser Tachometer Sensor (for balancing)
- Laser Tachometer Extension Cable (for balancing)
- Laser Tachometer Holder (for balancing)

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	Piezoelectric
Sensitivity	100 mV/g
Measurement Range	±20 g
Frequency Range (±3 dB)	0.32 - 10,000 Hz
Resonant Frequency	25,000 Hz
ADC	16 bits
Sampling Rate	200 to 20,000 Hz
Date Block Size	256 to 16,384 samples
Spectrum Range	1 to 10,000 Hz
Wireless Data Transmission Range	Up to 20 m
Operating Temperature	-20 - 60°C
Dust/Water Protection	IP66
Battery	Rechargeable Li-Po battery
Charging	Qi Wireless Charging

