

Bluetooth Sensor - Vibration Analysis

VIBPRO-EX



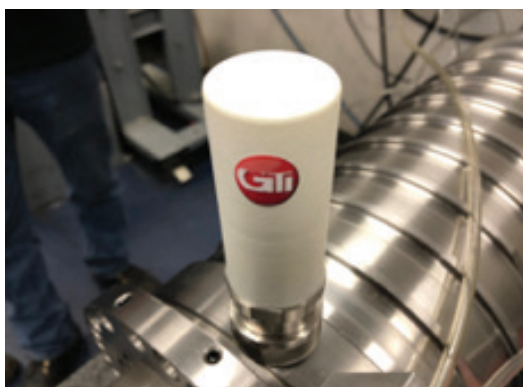


VIBPRO EX

Builds upon the great foundation established by VibePro. The EX version includes all of the features found in VibePro plus some new ones only available in this version. The app was written to work with our brand new explosion proof sensor that communicates with the iPad over Bluetooth.

ACCELEROMETER FEATURES

The main components of the wireless sensor are an accelerometer, signal conditioning electronics, anti-aliasing low pass filter, analog-to-digital converter, processor section, power/wake-up control and a low power radio module. The field replaceable battery is contained in a sealed compartment and the device mounts, via a screw thread (magnet mount provided).



SOFTWARE FEATURES

- Single Measurement Reporting
- Hierarchy Data Collection
 - Collect TWF data to capture both acceleration and velocity data
 - Edit measurements live
- Edit Point Settings
 - Sample Rate user setting
 - Number of Samples user setting
 - Bearing Library
 - Velocity and Acceleration ISO Alert and Alarm settings
 - Temperature Thresholds
 - Add machine photos and measurement points
- Hierarchy View
 - Generate measurement reports from the iPad
 - Remote analysis through VibePro-EX Web App

SOFTWARE SPECIFICATIONS

- 0.03 to 4.1 Hz Resolution – User Setting
- Display/Capture Live: Velocity, Acceleration, and TWF data
- Spectrum Markers
 - RPM
 - Touch
 - Bearing with Multiples
- Windowing

ACCELEROMETER SPECIFICATIONS

- Measuring Range +/- 20g
- Bluetooth LE (4.0)
- Field replaceable battery, up to 5 year battery life
- Certified for use in hazardous locations
 - Class 1, Div 2 approved

ADDITIONAL SPECIFICATIONS

ACCELEROMETER INPUT

Sensor Type: Piezoelectric, ultra low power

Sensitivity (mV/g): 50, 100, 250, 500, 1000, 2500, 5000 (software configurable setting)

Measurement Range: +/-20g RMS at 50mV/g

Frequency Range (+/-3dB): 0.3 to 10000

Hz Resonant Frequency: 25kHz

Amplitude Linearity: ±1% typical in passband

Dynamic Range: >70dB

DATA ACQUISITION

ADC: 16-bit SAR

Sampling Rate: 256Hz to 25.6kHz

Anti-Aliasing Filter: Compound analog/digital

Sample Lengths: 256 to 8192

Spectral Line Equivalent: 100 to 3200 Lines

PROCESSING

Processor: Ultra Low Power, 32 bit

Configuration: Over Radio Network

Programming: Firmware Upgrades Over Radio Network

COMMUNICATIONS

Network: Bluetooth Low Power radio link

USA, Canada, and International Certifications: FCC/IC

Europe Certifications: R&TTE

MECHANICAL

Base Enclosure: Stainless Steel

Cover Enclosure: Plastic

Weight: 100g

Dimensions: 33mm diameter x 84mm length

Mounting: Internal 1/4-28 UNF or M6 thread

ENVIRONMENTAL

Operating Temperature: -40°C to +85°C

Sealing: IP66

Compliance: CE, RoHS

Hazardous Locations: ATEX II 1G (Pending)
Ex ia IIC T4 Ga -40°C to +85°C (Pending)

POWER

Battery Type: Lithium Thionyl Chloride, 3.6V

Battery Monitor: Internal battery monitor and critical battery shutdown

Battery Life: Up to 5 years

Replacement: Field Replaceable

Available for: \$9,995 (\$6,500 for regular iPad case)
Includes: iPad Air 2, Intrinsically Safe iPad Case,
Bluetooth Accelerometer, and VibePro-EX software



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