

PRO-3200

Portable IoT Vibration Analyzer



The Pro-3200 is a next generation vibration measurement instrument for rotating equipment with anti-friction bearings. The IoT gateway serves as a secure private cloud for Real Time Monitoring, Interactive Data Collection, Diagnostic Analysis and Reporting. No subscriptions are required for cloud access. This portable device has built-in Wi-Fi and is accessible simultaneously by up to 20 mobile devices via a free mobile app for iOS and Android.

The vibration sensors can be easily located in the correct ISO-10816 positions for data collection on rotating machines to perform an analysis of live data in real time. And this device can be used on any rotating equipment (motors, pumps, air compressors or gear reducers). The Pro-3200 interactively integrates measurement, analysis, and diagnosis all in one device.

IMPORTANT FEATURES

- **Time-Frequency Selectable** - The gateway provides both time-domain and frequency-domain vibration signals that are selectable via smart phones.
- **Replaces Typical Frequency Analyzers** - Working together, the smart vibration sensors, IoT Gateway and smart phones represent a replacement of expensive and complicated Frequency Analyzers virtually anywhere, any time.
- **All-in-One** - The Pro-3200 integrates three operations: vibration measurement, analysis and diagnosis all into one operation; moreover, the diagnosis is operated interactively, in real time.
- **Plug-and-Play** - All operations are powered by a mobile power pack and the diagnosis is delivered via wireless Wi-Fi connections. No power cords or network wires are needed, just plug and play: amazingly easy to use.



The portable case contains an IoT (Internet of Things) gateway, smart vibration sensors and a rechargeable mobile power pack with a 12 hour battery pack. This allows technicians to carry the device onsite for measurement diagnosis operations.

ONSITE INSTRUMENT USE

- Measures 3-axis RMS values and compares against the motor vibration specifications
- Presents the FFT data so that the vibration energy distributions on frequency domains can be reviewed and diagnosed for the four possible defects: bearing defects, misalignment, unbalance and soft foot, which are 90% of a motor's mechanical failures.
- IoT and Smart Phones can work together on an interactive diagnosis.
- Record all measured data and diagnosis results for future motor health reference