

Smart Vibration Gauge Solution

TECOM Smart Vibration Gauge Solution consists of three parts: the integrated gauge, the smart IoT Gateway (Internet of Things), and the smart phone APPs.

The VB-200 series Vibration Gauge integrates a 3-axis sensor and a signal transducer. It detects vibration speed and acceleration in X/Y/Z axis, converts into RMS and FFT values. The outputs of the VB-200 are in RS-485 format, they are also time-domain and frequency-domain selectable.

The VB-200 is available in screw-down (VB-200SC), stick-on (VB-200ST) and suction-type (VB-200MS) versions, those are easy to install.

The gauge is connected to the IoT Gateway via RS-485. With mobile IoT Protocols the Gateway makes virtual connections between the gauge and remote smart mobile devices.

The Smart Vibration Gauge Solution provides many advanced features. Vibration monitoring and diagnosis can be done remotely, interactively and in real time. This fits the Mobile Maintenance (MM), a strong trend in repair operations.

Functions

- ◆ Vibration velocity and acceleration measures
- ◆ Vibration Date Time-Frequency Selectable
- ◆ IoT always connect and push notifications
- ◆ Remote monitor, real-time data and trending data
- ◆ Remote Alarms
- ◆ Real-time, interactive Diagnosis (Market Leading)

Product Images



VB200-SC(Screw-Down)
Vibration Gauge



VB200-ST(Stick-on)
Vibration Gauge



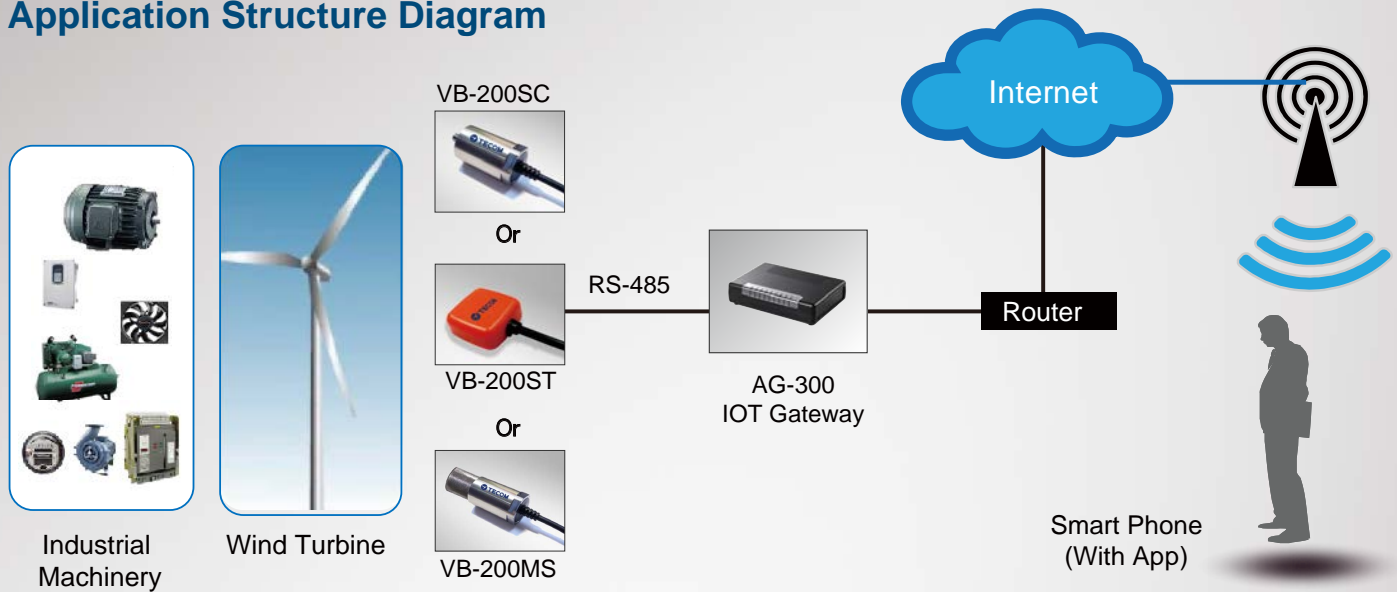
VB200-MS(Suction-type)
Vibration Gauge



AG-300
IoT Gateway

Smart Vibration Gauge Solution

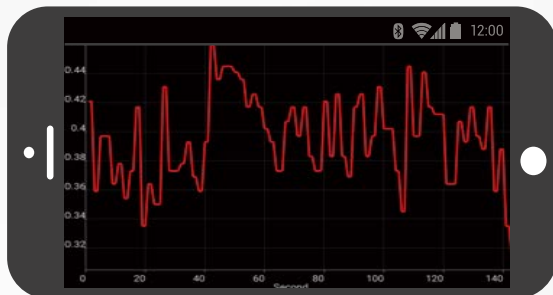
Application Structure Diagram



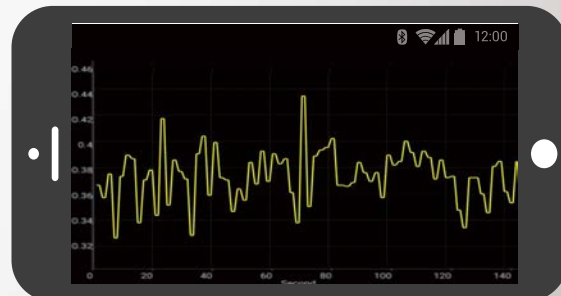
Specifications

- Sensitivity Change v.s. Temperature : +/- 0.026% °C
- Nonlinearity : +/- 0.5%
- Cross-Axis Sensitivity : +/- 2%
- Full-Scale Range : +/- 16g
- Frequency Response : DC-1130Hz
- Specified Temperature Range : -40 to +85 °C

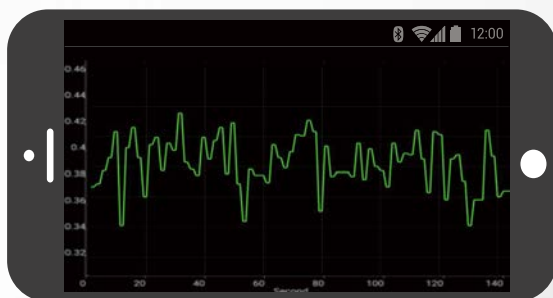
Measurement Displays on Smart Phones



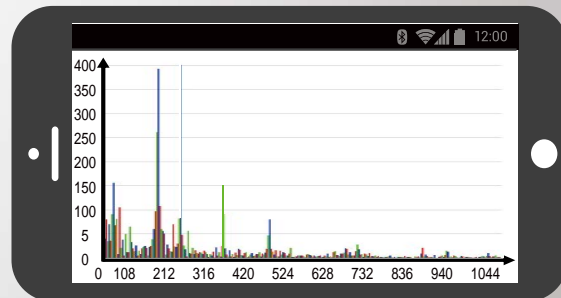
X axis RMS speed or acceleration



Z axis RMS speed or acceleration



Y axis RMS speed or acceleration



FFT speed or acceleration