

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. Working together with smart phone, it can replace high accuracy **frequency analyzer**.

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 Data 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

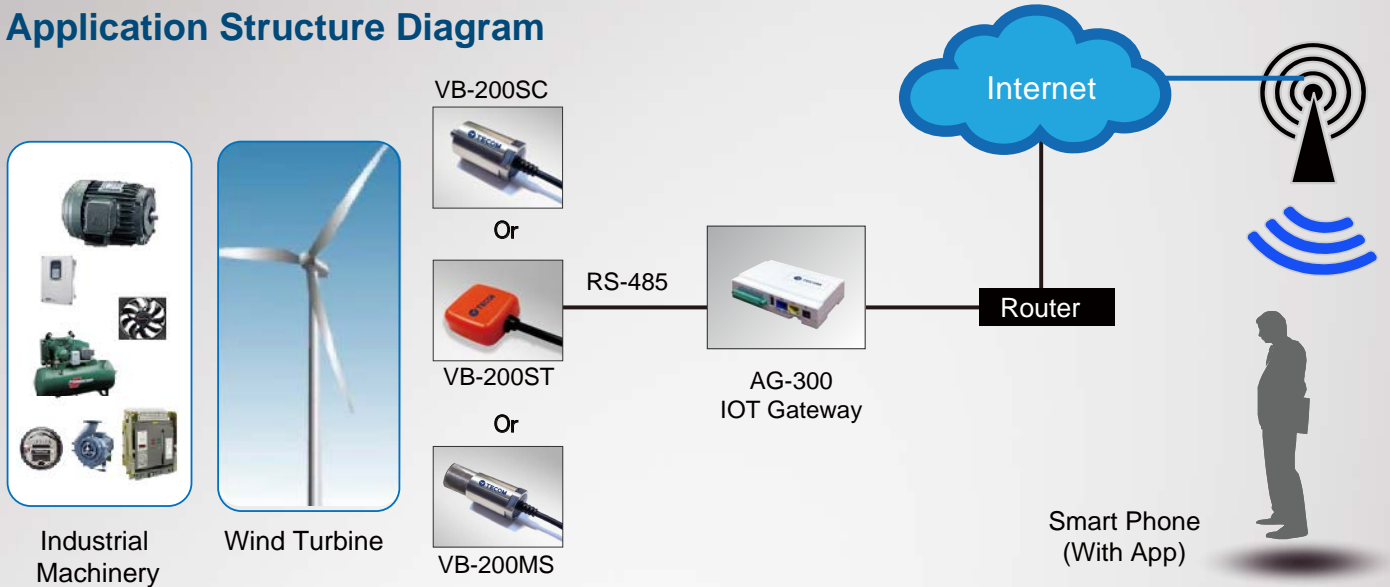


AG-300
IoT Gateway



Smart Vibration Gauge Solution

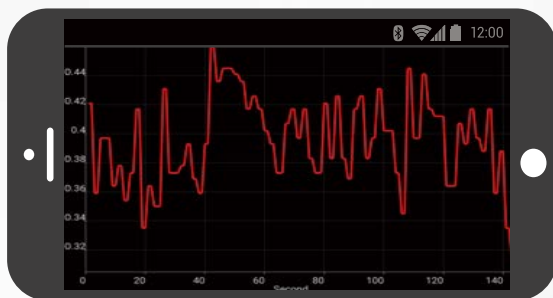
Application Structure Diagram



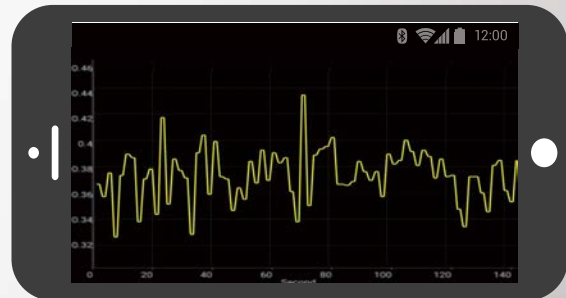
Specifications

- 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



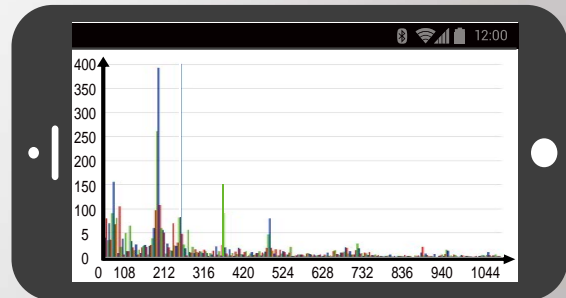
X axis RMS speed or acceleration



Z axis RMS speed or acceleration



Y axis RMS speed or acceleration



FFT speed or acceleration