

## Vibration Sensor

VB-800



## Wireless Vibration Temperature Sensor

Tecom VB-800 Wireless Vibration Temperature Sensor is an innovative product that combines vibration and temperature sensing, and Bluetooth communication.

It is installed on various rotating motors and provides three-axis RMS vibration of velocity and acceleration, the FFT of velocity and acceleration, raw data and single point temperature monitoring. Customers can read all the monitoring data on their mobile phones, and they can also upload to the remote management platform to perform functions such as storage, trend comparison, diagnostic analysis and report output.

It can be combined with the AG-800 smart gateway to regularly report and monitor vibration and temperature data for on-line monitoring. Complete wireless, automatic, and system-wide vibration and temperature measurement applications, truly self-installation (DIY) and ready-to-use (Stick&Play), customers can get real benefits.

### Key Features

#### ▶ Stick and Play

Easy to install it and use it immediately

#### ▶ No power cord required

Battery powered, up to three years lifetime

#### ▶ No wired network required

Wireless transmission (Bluetooth)

#### ▶ Data upload

The mobile APP supports data export to the remote database for AI computing

#### ▶ Exclusively provide a variety of high-tech data display

RMS, FFT, Raw Data, Health (H) Index, Temperature

#### ▶ Health (H) Index

Unique to the market, providing advice on predictive maintenance schedules

#### ▶ Provide predictable maintenance schedule

Take precautions and avoid unannounced shutdown

## VB-800

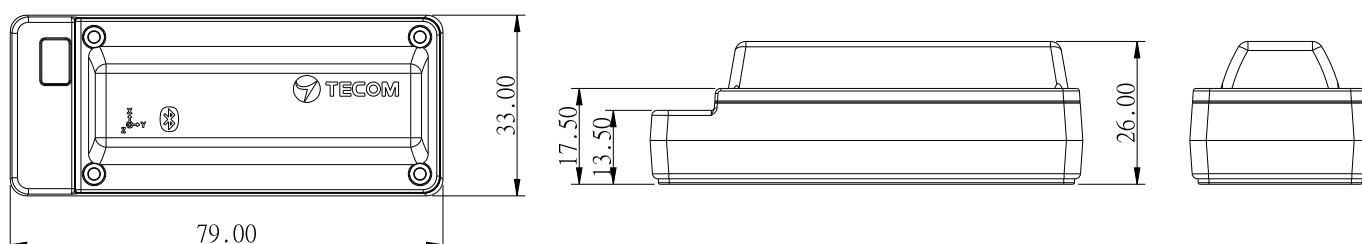
# Wireless Vibration Temperature Sensor

### Product Specifications

|              | Item                  | Specifications   |
|--------------|-----------------------|--|
| Sensing      | Vibration             | Sensitivity range: $\pm 16g$ (max), $\pm 8g$ (default)<br>Frequency Response: 1 Hz to 1800 Hz $\pm 3dB$<br>Default filter: 10~1000 Hz for ISO2954<br>Sampling frequency: 8000 Hz |
|              | Temperature           | Measuring the temperature of the contact surface, measuring range:<br>-40°C~75°C, accuracy: $\pm 1^\circ C$<br>75°C~85°C, accuracy: $\pm 2^\circ C$                              |
| Transmission | Transfer method       | BLE 5.0, available range <30m<br>Support APP near-end reading<br>Timed transmission (with BLE GW)  |
|              | Output data           | RMS, Raw Data, Temperature, Health index   |
| Power supply | Power supply mode     | Battery power supply (user can replace the battery)  |
|              | Battery life          | 3 years  |
| Mechanism    | Maximum weight        | 39g (without battery)  |
|              | Machine material      | PC   |
|              | IP rating             | IP66   |
|              | Size                  | 79(L)*33(W)*26(H)mm  |
| Environment  | Installation method   | Paste  |
|              | Operating temperature | -40°C ~ +85°C  |
|              | Storage temperature   | -40°C ~ +85°C  |

### Product Size

79 x 33 x 26mm



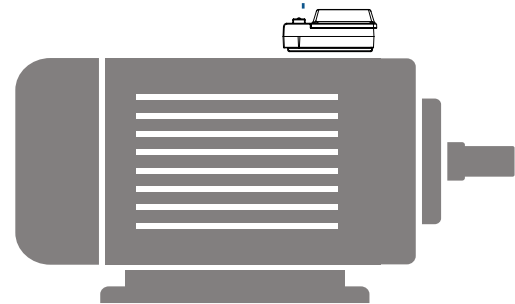
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# Wireless Vibration Temperature Sensor

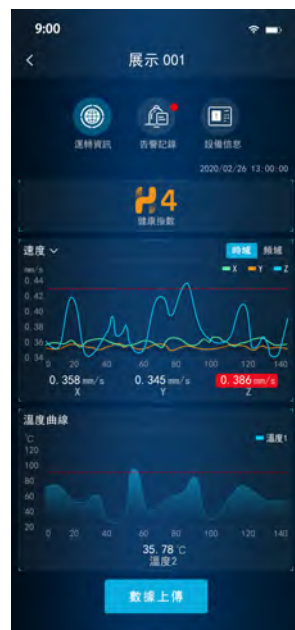
### Application Diagram



1. Quick connection between mobile phone and VB-800
2. The health index provides corresponding maintenance timing
3. Real-time three-axis vibration data display



### APP Functions :



#### 1. Health Index

- H1 ~ H9 (H1 needs shutdown immediately, H9 is fully healthy)

#### 2. Vibration Value

- Velocity RMS/FFT
- Acceleration RMS/FFT

#### 3. Temperature

- Single point temperature

#### 4. APP Alarm

- Alarm display
- Alarm record query

#### 5. Data Upload