

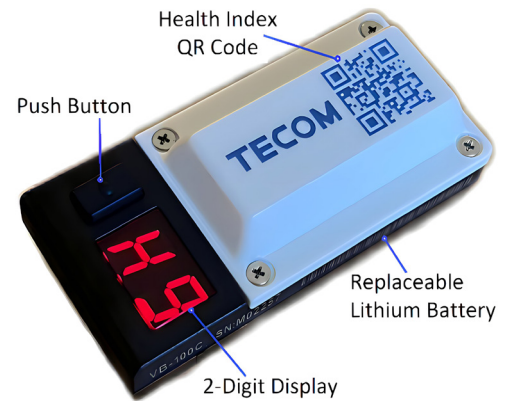
# TECO MOTOR VIBRATION VB-100

## IP65 Industrial Grade Stand-alone Motor Vibration Meter

TECO'S VB-100 motor vibration meter is a cutting-edge, battery-powered, stand-alone product, revolutionising the way you monitor motor vibrations. It combines a highly sensitive MEMS vibration sensor with a user-friendly digital display, offering unparalleled convenience simplicity and effectiveness.

With the VB-100, there's no need for complicated setups involving gateways, wifi, or other vibration measurement platforms.

Simply press the button, and the built-in LED display will provide you with real-time, single-axis motor vibration velocity.



Understanding and monitoring your motor's health has never been easier! Just scan the QR code on the unit to access a detailed table outlining the health index and performance insights.

VB-100 is designed for quick mounting and effortless viewing, ensuring seamless integration into your motor monitoring and maintenance routine.

With TECO's VB-100 Motor Vibration Meter, take charge of your electric motor's health like never before.

## SPECIFICATIONS

- RMS vibration (velocity) measurement range 0~99 mm/s
- Sensitivity error 5%(max) @100Hz
- Frequency response 10~1000 Hz for ISO10816
- Temperature error range  $\pm 0.01\%/^{\circ}\text{C}$
- Nonlinearity  $\pm 0.2\%$
- Cross-axis sensitivity  $\pm 1.0\%$  typical,  $\pm 3.5\%$  max
- Working temperature Body:  $-40 \sim 85^{\circ}\text{C}$
- Lithium Battery:  $-40 \sim 70^{\circ}\text{C}$  (CR2)
- Shock limit 20,000g
- Noise  $70\mu\text{g}/\sqrt{\text{Hz}}$

## FEATURES

- 7-Segment LED Display
- IP65 rated
- Vibration data measurement and display; velocity RMS (mm/s)
- Vibration measurement, smart display: (1) RMS vibration value; (2) Alarm (LED flashing); (3) Vibration health index (H1 to H9, H9 being the healthiest reading)
- Pressing the button activates the screen for 20 seconds, providing instantaneous vibration velocity RMS followed by the health index
- Compact size is suitable for motors of frame sizes 132 to 250
- Adhesive installation method.

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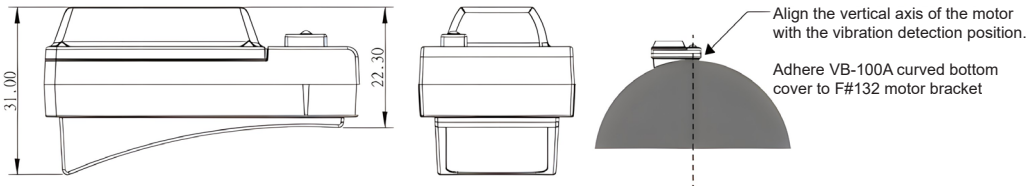
## IP65 Industrial Grade Stand-alone Motor Vibration Meter

TECO provides two specific models:

1. **VB-100A** (curved base) suitable for motor frame size up to 132
2. **VB-100C** (flat bottom) suitable for motor frame sizes from 160 to 250

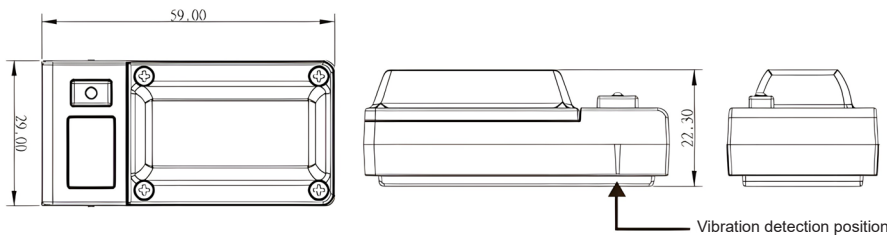
### VB-100A


59 x 31 x 22.3mm



### VB-100C

59 x 29 x 22.3mm





## Vibration

**HEALTH INDEX**

Vibration Health Index is classified into 9 levels (Best is H9) which is refer to ISO-10816.

Vibration Health Index	Suggestions
Normal	H9 Good to use
	H8 Check again in 6 months
	H7 Check again in 3 months
Mild Abnormality	H6 Check again in 2 months
	H5 Check again in 1 month
Moderate Abnormal	H4 Check weekly
	H3 Shut Down & Check
Critical	H2 Shut Down & Check
	H1 Immediately Shut Down & Check

### Real-Time Monitoring Made Easy - Health Index

1. When your motor is up and running, a simple press of the button next to the LCD display on the VB-100 allows you to instantly access real-time motor vibration velocity readings and health index
2. Stay informed about your motor's performance, all at your fingertips
3. For a comprehensive view of the Vibration Health Index, just scan the QR Code on the battery cover
4. The index is divided into 9 levels, with H9 indicating the healthiest reading.
5. Easily and quality assess your motor's condition and make data-driven decisions.



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Scan Health Index QR Code

