

# VIBRATION METER

PCE-VT 60



- » **Mobile vibration measurement**
- » **Max hold function**
- » **Displays displacement, velocity and acceleration simultaneously**
- » **Wide frequency range in acceleration mode**
- » **Switchable units (metric/imperial)**
- » **Measurement according to ISO 2954**

The vibration meter is a handy measuring device for vibration analysis and machine monitoring in industry, production and maintenance. It is particularly suitable for rotating machines such as motors, pumps, gearboxes or fans, in order to detect imbalances, misalignments or bearing problems at an early stage. Thanks to its portable design, it can be used directly on site for quality control, commissioning or predictive maintenance.

The vibration meter records the three most important vibration parameters – acceleration, velocity and displacement – and displays them simultaneously on the screen. The frequency ranges are 10 Hz to 10 kHz for acceleration and 10 Hz to 1 kHz for velocity and displacement. These values enable precise measurements of both high-frequency vibrations, such as those occurring in gearboxes, and low-frequency movements of slow-running machines.

Technically, the vibration meter is based on a piezoelectric acceleration sensor, which ensures high measurement accuracy, exact repeatability and a wide frequency range. The measured values are shown on a 4-digit, 2-inch LCD display that supports both metric and imperial units. Practical functions such as MAX-Hold allow the highest measured value to be stored. With its robust design, low weight (123 g), compact dimensions and rechargeable battery, the vibration meter is particularly mobile and easy to use.

## Specification

### Acceleration

Measurement range up to 0,1 ... 300 m/s<sup>2</sup>

Resolution 0,1 m/s<sup>2</sup>

Accuracy ±(10% v.Mw. +0.2 m/s<sup>2</sup>)

Frequency range 10 Hz ... 10 kHz

### Acceleration

Measurement range up to 0,1 ... 985 ft/s<sup>2</sup>

Resolution 0,1 ft/s<sup>2</sup>

Accuracy ±(10% of reading +0.2 ft/s<sup>2</sup>)

### Speed

Measurement range up to 0,1 ... 300 mm/s

Resolution 0.01 mm/s

Accuracy ±(10% of Mw +0.2 mm/s)

Frequency range 10 Hz ... 1 kHz

### Speed

Measurement range up to 0 ... 13 inch/s

Resolution 0.01 inch/s

Accuracy ±(10% of Mw +0.2 inches/s)

### Path

Measurement range up to 0,001 ... 3 mm

Resolution 0,001 mm

Accuracy ±(10% v.Mw. +0.2 mm)

Frequency range 10 Hz ... 1 kHz

### Path

Measurement range up to 0,04 ... 120 mil

Resolution 0,001 mil

Accuracy ±(10% v.Mw. +0.2 mil)

### General technical data

Measuring functions MAX Team

Display type LCD

Display size 2 Inch

Interface RS232

Standard(s) ISO 2954

Sensor Piezoelectric

Menu language English, English (GB)

Protection class (device) IP20

Power supply 100 ... 240 V AC | 50/60 Hz

Connector type Device-europlug

(Rechargeable) battery 1 x 3,7 V internal , Lithium-ion battery

Capacity 1000 mAh

Operating conditions 0 ... 50 °C , 0 ... 95 % RH

Storage conditions 0 ... 50 °C , 0 ... 95 % RH

Dimensions ( L x W x H ) 158 x 43 x 22 mm

Weight 123 g