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	
Measuring range	0,1 ... 300 m/s²
Resolution	0,1 m/s²
Accuracy	±(10% v.Mw. +0.2 m/s²)
Frequency range	10 Hz ... 10 kHz
Acceleration	
Measuring range	0,1 ... 985 ft/s²
Resolution	0,1 ft/s²
Accuracy	±(10% of reading +0.2 ft/s²)
Speed	
Measuring range	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	
Measuring range	0 ... 13 inch/s
Resolution	0.01 inch/s
Accuracy	±(10% of Mw +0.2 inches/s)
Path	
Measuring range	0,001 ... 3 mm
Resolution	0,001 mm
Accuracy	±(10% v.Mw. +0.2 mm)
Frequency range	10 Hz ... 1 kHz
Path	
Measuring range	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