

Accelerometer PCE-VT 3700



Handy entry-level device for vibration monitoring of machines and systems / HOLD function / Peak value measurement / Handheld device for mobile vibration measurement / Automatic ISO 10816-3 evaluation

The accelerometer is ideal for maintenance workers to quickly check vibrating parts, machines and systems. This vibration meter shows the vibration acceleration, vibration velocity and vibration displacement directly on the display. You can use the device to quickly and reliably detect machine imbalances which can lead to, for example, bearing damage. The vibration meter is equipped with a mode that allows a measurement according to ISO 10816-3 to be carried out. The vibration meter analyzes the measured values and automatically shows a good / bad evaluation on the display.

The vibration meter is supplied with a sensor on the spiral cable, magnet adapter, service bag and batteries. The display of the vibration meter is a colored graphic display, which makes operation easier, since all instructions and menu items are shown in plain text. The 12 languages in the menu of the vibration meter are easily switchable.

- ▶ Automatic ISO 10816-3 evaluation
- ▶ Easy to handle
- ▶ For mobile vibration measurement
- The measurement unit can be switched between the metric system and imperial units.
- ▶ Colored graphic display
- ▶ Peak-hold function

Specifications

Measuring range	Acceleration 0.0 - 399.9 m/s ² / 0.0 - 15744 in/s ²
Resolution	0.1 m/s ² / 3.94 in/s ²
Accuracy @ 160 Hz	±2 %
Frequency range	1 kHz - 10 kHz 10 Hz - 10 kHz
Measuring range	Velocity 0.00 - 399.99 mm/s / 0.00 - 15.74 in/s
Resolution	0.01 mm/s / 0.0039 in/s
Accuracy @ 160 Hz	±2 %
Frequency range	10 Hz - 1 kHz
Measuring range	Displacement 0.000 - 3.999 mm / 0.000 - 0.154 in
Resolution	1 µm / 39.4 µin
Accuracy @ 160 Hz	±2 %
Frequency range	10 Hz - 200 Hz
Measurement parameters	RMS, Peak, Peak-Peak Crest factor
Units	switchable metric / imperial
Display	2.4" LC display
Menu languages	English, German, French Spanish, Italian, Dutch Portuguese, Turkish, Polish Russian, Chinese, Japanese
Power supply	3 x 1.5 V AA batteries
Operating and storage conditions	-20 ... +65 °C / -4 ... 149 °F; 10 ... 95 % r.H.
Dimensions	150 x 80 x 38 mm / 5.9 x 3.1 x 1.5"
Weight	170 g / 6 oz

Technical Data Vibration Sensor

Resonance frequency	24 kHz
Transverse sensitivity	≤ 5%
Destruction limit	5000 g (peak)
Operating and storage temperature	-55 ... +150 °C / -67 ... 302 °F
Housing material	stainless steel
Mounting thread	¼ - 28"
Dimensions	Ø 17 x 46 mm / 0.67 x 1.8"
Weight (without cable)	52 g / 1.8 oz

More information

Manual



More product info



Similar products



Subject to change