

VIBRATION MEASUREMENT VIBRATION METER

PCE-VT 3700 / PCE-VT 3700S

Handy entry-level device for vibration monitoring of machines and systems

The vibration meter 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 a spiral cable, magnet adapter, service bag and batteries. The ISO factory certificate completes the scope of delivery.

ISO cal option

- » automatic ISO 10816-3 evaluation
- » easy to handle
- » for mobile vibration measurement
- » coloured graphic display
- » peak-hold function



APPLICATION



TECHNICAL SPECIFICATIONS

Measuring range	Acceleration 0.0 ... 399.9 m/s ² 0.1 m/s ²
Resolution	±2 %
Accuracy @ 160 Hz	10 Hz ... 1 kHz
Frequency range	10 Hz ... 10 kHz
Measuring range	Velocity 0.00 ... 399.9 mm/s 0.1 mm/s
Resolution	±2 %
Accuracy @ 160 Hz	10 Hz ... 1 kHz
Frequency range	
Measuring range	Displacement 0.000 ... 3.9 mm 1 µm
Resolution	±2 %
Accuracy @ 160 Hz	10 Hz ... 200 Hz
Frequency range	
Measurement parameters	RMS, Peak, Peak-Peak Crest factor switchable metric / imperial
Units	3.5" LC display
Display	English, German, French Spanish, Italian, Dutch Portuguese, Turkish, Polish Russian, Chinese, Japanese
Menu languages	3 x 1.5 V AA batteries
Power supply	-20 ... +65 °C / -4 ... 149 °F; 10 ... 95 % r.H.
Operating and storage conditions	150 x 80 x 38 mm / 5.9 x 3.1 x 1.5"
Dimensions	170 g / 6 oz
Weight	Sensor PCE-VT 3700 Sensor with spiral cable PCE-VT 3xxx SENSOR Magnet adapter PCE-VT VMH
Sensor PCE-VT 3700	Sensor with spiral cable PCE-VT 3xxx SENSOR Magnet adapter PCE-VT VMH
Sensor PCE-VT 3700S	Needle sensor PCE-VT NP Handgrip PCE-VT 3xxx HANDLE
Technical data vibration sensor	Resonance frequency 30 kHz
Resonance frequency	Transverse sensitivity ≤5 %
Transverse sensitivity	Destruction limit 5000 g (peak)
Destruction limit	Operating and storage temperature -20 ... +80 °C / -4 ... 176 °F; max. 95 % r.H.
Operating and storage temperature	Housing material Stainless steel
Housing material	Mounting thread M5
Mounting thread	Dimensions 16 x 36 mm / 0.6 x 1.4"
Dimensions	Weight (without cable) 35 g / 1.2 oz
Weight (without cable)	

Optional accessories:

- PCE-VT NP Needle sensor for vibration meter
- PCE-VT VMH Magnet adapter
- PCE-VT 3700 CASE Case with rigid foam insert
- CAL-PCE-VT 3700 ISO-calibration for vibration meter
- PCE-VT 3xxx SENSOR Replacement sensor

Further models:

- PCE-VT 3750 incl. sensor, magnetic adapter, headset
- PCE-VT 3750S incl. needle sensor with handgrip, headset



PCE-VT 3700



PCE-VT 3700S



Subject to change without notice