

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	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
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	
Units	switchable metric / imperial	
Display	3.5" 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	
Sensor PCE-VT 3700	Sensor with spiral cable PCE-VT 3xxx SENSOR Magnet adapter PCE-VT VMH	
Sensor PCE-VT 3700S	Sensor with spiral cable PCE-VT 3xxx SENSOR Magnet adapter PCE-VT VMH Needle sensor PCE-VT NP Handgrip PCE-VT 3xxx HANDLE	
Technical data vibration sensor		
Resonance frequency	30 kHz	
Transverse sensitivity	≤5 %	
Destruction limit	5000 g (peak)	
Operating and storage temperature	-20 ... +80 °C / -4 ... 176 °F; max. 95 % r.H.	
Housing material	Stainless steel	
Mounting thread	M5	
Dimensions	16 x 36 mm / 0.6 x 1.4"	
Weight (without cable)	35 g / 1.2 oz	

PCE-VT 3700 PCE-VT 3700S



Subject to change without notice