VIBRATION METER

PCE-VT 204



- **Measures vibration speed or velocity, acceleration and displacement as well as revolutions per minute (RPMs)**
- **Functions as a both a contact (mechanical) and a noncontact (optical) rotation tachometer**
- **Boasts an internal memory for storing up to 1000 readings**
- **Easy-to-read LCD screen**
- **Low-battery indicator**
- **RS-232 port**
- **Min / max and data hold**
- **Features a needle sensor, flat sensor, adjustable magnetic base, mechanical wheel sensor and built-in optical sensor**

This multifunction handheld vibration meter for condition monitoring. The vibration meter has the ability to accurately measure both rotation and vibration. An ideal tool for the testing and inspection of machine parts and components such as motors, transmissions, gears, gear boxes and wheels, this multi-purpose device measures revolutions per minute (RPMs) as well as three-axis vibration, i.e., velocity or speed, displacement and acceleration.

The vibration meter sensor can be set flat, equipped with a magnet or combined with the included fastening screw to make contact with a surface during vibration measurement. Internal frequency filters eliminate the effects of background noise, allowing the device to detect specific vibrations.

Note: If you wish to transfer the readings from the handheld device to a computer, the optional software package is required. See accessories for details.

Specification

Acceleration	
Measuring range	0,5 ... 199,9 m/s²
Resolution	0,1 m/s²
Accuracy	±(5% of reading ±2 digits) @ 160 Hz, 23 ±5°C / 41°F
Mechanical speed	
Measuring range	0,5 ... 999 U/min
Resolution	0,1 U/min
Accuracy	±(0.05% v.Mw. ±1 Digit)
Mechanical speed	
Measuring range	1000 ... 19999 U/min
Resolution	1 U/min
Accuracy	±(0.05% v.Mw. ±1 Digit)
Speed optical	
Measuring range	10 ... 999 U/min
Resolution	0,1 U/min
Accuracy	±(0.05% v.Mw. ±1 Digit)
Speed optical	
Measuring range	1000 ... 99999 U/min
Resolution	1 U/min
Accuracy	±(0.05% v.Mw. ±1 Digit)
Speed	
Measuring range	0,5 ... 199,9 mm/s
Resolution	0.1 mm/s
Accuracy	±(5% of reading ±2 digits) @ 160 Hz, 23 ±5°C / 41°F
Speed	
Measuring range	0,05 ... 99,99 m/min
Resolution	0.01 m/min
Accuracy	±(0.05% v.Mw. ±1 Digit)
Speed	
Measuring range	100 ... 1999 m/min
Resolution	0.1 m/min
Accuracy	±(0.05% v.Mw. ±1 Digit)
Displacement	
Measuring range	0,005 ... 1,999 mm
Resolution	0,001 mm
Accuracy	±(5% of reading ±2 digits) @ 160 Hz, 23 ±5°C / 41°F

General technical data	
Measuring functions	HOLD, MIN, MAX, peak, RMS
Measuring interval	1 ... 3600 s
Frequency	10 ... 1000 Hz
Display Typ	LCD
Storage medium	Internal memory
Storage capacity	1000 Values
Interface	RS232
Housing	ABS
Measuring distance	50 ... 1500 mm
Menu language	English (US), English (GB)
Protection class (device)	IP20
Power supply	batteries
Battery/battery	4 x 1,5 V AA Battery (1,5V) , Alkali-Manganese
Battery capacity	3000 mAh
Operating conditions	0 ... 50 °C , 0 ... 80 %RH
Storage conditions	0 ... 50 °C , 0 ... 80 %RH
Dimensions (L x W x H)	188 x 76 x 47 mm
Weight	400 g