



# Data Sheet

## Vibration meter

**PCE-VT 2700S**

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**Accelerometer for inspecting vibrations in machines and installations,  
detects three vibration parameters**

The PCE-VT 2700S accelerometer is ideal for maintenance workers to quickly test vibrations in machine parts and installations. The accelerometer shows acceleration, velocity and vibration displacement on the display. This device can detect potential problem areas in moving components. It has an RS232 interface that allows for data to be transferred to a computer for further analysis with optional software. It is calibrated to meet ISO standards.

The image above shows the device with it's supporting adaptor. It can be attached to the handle adaptor, the needle sensor or the magnetic base.

- small and light weight
- easy to use
- ideal for measurements on-site
- Peak hold function
- ABS plastic enclosure
- 4-digit LCD, value last measured is displayed
- low battery indicator
- optional ISO calibration certificate

### Technical specifications

Measurement range acceleration	0.0 ... 399.9 m/s <sup>2</sup> (Peak) / 0.0 ... 1311 ft/s <sup>2</sup> (Peak)
Measurement range velocity	0.00 ... 399.9 mm/s (RMS) / 0.00 ... 15.75 inch/s (RMS)
Measurement range displacement	0.000 ... 3.9999 mm (Pk-Pk) 0.000 ... 158.0 mil (Pk-Pk)
Measurement range revolutions	50 ... 99.900 RPM (reading must be multiplied by 10)
Resolution	0.1 m/s <sup>2</sup> ; 0.1 mm/s ; 1 μm
Accuracy	± 5% v. of reading + 2 digits
Frequency range acceleration	9 Hz ... 1 kHz (in 1 kHz mode) / 9 Hz ... 10 kHz (in 10 kHz mode)
Frequency range velocity	10 Hz ... 1 kHz
Frequency range displacement	10 Hz ... 1 kHz
Display	4-digit LCD, value last measured is displayed
Units	adjustable metric / imperial
Interface	RS-232, requires optional SW kit with custom cable
Battery	3 x 1.5 V batteries AAA / LR03 / battery life up to 5 hours at continuous operation
Auto Power Off	battery life dependent, no timeout
Low Bat symbol	<2.1 V
Operating conditions	-5 ... +55 °C; 0...95 % RH non-condensing
Dimensions	142 x 77 x 40 mm
Weight	225 g (with batteries)

**Note:** Accurate RPM readings require a single rotating part, multiple rotating parts produces complex frequencies and false readings.

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## Contents

- 1 x PCE-VT 2700S Accelerometer
- 1 x handle with 1.5 m cable
- 1 x 75 mm pin probe
- 1 x magnetic adapter plate
- 3 x batteries
- 1 x carrying case
- 1 x user manual
- 1 x signed factory calibration certificate