



## PCE-VT 1000 Vibration Analyser

Pocket vibration analyzer to measure vibration velocity in machines and installations

The PCE-VT 1000 vibration analyser is designed for the preventive or rather precautionary maintenance of production machines. The vibration analyser is established for quick measurements of an imbalance and the examination of bearings and gears. It also is frequently used to evaluate the state of small electronic motors. In the following section, you will find classifications of the values obtained with the vibration analyser. If there are any questions about this vibration analyser PCE-VT1000, please have a look at the technical specification below or call: **UK customers** +44(0) 23 809 870 30 / **US customers** +1-410-387-7703. Our engineers and technicians will gladly advise you regarding the [vibration meters](#) or any other products in terms of [regulation and control](#), or [scales and balances](#) of [PCE Instruments](#).



- measures vibration velocity
- keeps the value after every measurement.
- easy to handle, powered by batteries
- wide frequency range
- automatic shut-down after 2 minutes of
- low battery indicator



## Technical Specifications

Range of Measurement (vibration velocity)	0.1 ... 199.9 mm/s
Resolution	0.1 mm/s
Accuracy	± 5 %
Frequency Range	10 Hz ... 1 kHz
Display	3.5 positions LCD display that shows the last measurement value.
Battery	2 watch batteries 1.5 V with 5 hours of continuous use
Auto Shut-off	automatically disconnects after 2 minutes without activity to protect battery life
Operational Temperature Range	0 ... 40 °C, < 85 % H. r.
Dimensions	150 x 22 x 15 mm
Weight	55 g

## Delivery contents

- 1 x PCE-VT 1000 vibration analyser,
- 1 x carrying case,
- 2 x batteries,
- 1 x factory certificate,
- 1 x user's manual.

## Classification of results (ISO 2372)

(RMS) mm/s	class I	II	III	IV
0.28	very good	very good	very good	very good
0.45				
0.71	good	good	good	good
1.12				
1.8	bad	bad	bad	bad
2.8				
4.5	prohibited	prohibited	prohibited	prohibited
7.1				
11.2	prohibited	prohibited	prohibited	prohibited
18				
28 >	prohibited	prohibited	prohibited	prohibited

### Attention (the classes refer to):

- class I (small motors up to 15 kW),
- class II (medium electronic motors up to 75 kW),
- class III (large electronic motors with stator stable) y
- class IV (large motors with bearing / stator oscillating).

These results are taken from at least 3 measurements on 3 axes.



## Accessories

### ISO calibration certificate

Documentation required for businesses that wish to incorporate the vibration meter into their group of internal control tools or to perform an annual recalibration. The certificate contains the manufacturer's calibration certification and a test certificate with the measurement values. The certificate also includes the applicant company's information.

