



Data Sheet Vibration Tester

PCE-VT 2700 / PCE-VT 2700S

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Areas of application

The PCE-VT 2700(S) vibration meter is ideal for maintenance personnel to quickly test vibrations in machine parts and installations. The vibration meter shows acceleration, velocity and vibration displacement on the display. This device can detect potential problem areas in moving components quickly and safely.

1 Delivery content

- 1 x vibration meter
- 1 x attachable sensor 1.5 m cable (PCE-VT 2700)
- 1 x handle with 1.5 m cable (PCE-VT 2700S)
- 1 x 75 mm pin probes
- 1 x magnetic adaptor plate
- 3 x batteries
- 1 x ISO calibration certificate
- 1 x carrying case
- 1 x manual

2 System description

- 1) Sensor connection
- 2) Display
- 3) METRIC / IMPERIAL key (units)
- 4) HOLD key
- 5) Volume key
- 6) Earphone connection
- 7) Connection for RS-232 cable
- 8) FUNCTION key
- 9) FILTER key
- 10) On / off key
- 11) Battery compartment cover
- 12) Sensor



3 Technical specifications of the PCE-VT 2700(S)

Measurement range acceleration	0.0 ... 399.9 m/s ² (Peak) / 0.0 ... 1311 ft/s ² (Peak)
Measurement range velocity	0.00 ... 399.9 mm/s (RMS) / 0.00 ... 15.75 inch/s (RMS)
Measurement range displacement	0.000 ... 3.999 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 ² ; 0.1 mm/s; 1 μm, 1 rpm
Accuracy	± 5% of reading + 2 digits
Frequency range acceleration	10 Hz ... 1 kHz (in 1 kHz mode) / 10 Hz ... 10 kHz (in 10 kHz mode)
Frequency range velocity	10 Hz ... 1 kHz
Frequency range displacement	10 Hz ... 1 kHz
Display	4-digit LC display, value last measured is displayed
Units	selectable: metric or imperial
Interface	RS-232
Power supply	3 x 1.5 V AAA batteries / LR03 battery life up to 5 hours at continuous operation
Auto Power Off	5 minutes after last keystroke
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)

4 Technical drawing

5 In-use pictures

PCE-VT 2700



PCE-VT 2700S



6 Order code PCE-VT 2700 / PCE-VT 2700S

Force gauge with attachable sensor

PCE-VT 2700

Force gauge with handle with 1.5 m cable

PCE-VT 2700

PC software for the PCE-VT 2700(S) with data cable

VT-2700-SW

ISO calibration certificate for PCE-VT 2700(S)

CAL-PCE-VT 2700

Replacement sensor with cable (5 pins) for PCE-VT 2700

Sensor-PCE-VT-2700

Replacement sensor with cable (5 pins), handle and needle for PCE-VT 2700S

Sensor-PCE-VT-2700-XL

Example:

PCE-VT 2700

VT-2700-SW

- *Force gauge PCE-VT 2700 with attachable sensor*
- *PC software for PCE-VT 2700(S)*