

VIBRATION METER

PCE-VT 3750



- » **Automatic ISO 10816-3 evaluation**
- » **Easy to handle**
- » **For mobile vibration measurement**
- » **The measurement unit can be switched between the metric system and imperial units**
- » **Colored graphic display**
- » **Peak-hold function**
- » **incl. headset**

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 the spiral cable, magnet adapter, service bag and batteries. The ISO factory certificate completes the scope of delivery. The display of the vibration meter is a colored graphic display, which makes operation easier, since all instructions and menu items are shown in plain text. The 12 languages in the menu of the vibration meter are easily switchable.

Specification

Acceleration

Measurement range up to 0 ... 399,9 ft/s²

Resolution 0,1 ft/s²

Accuracy ±2 %

Frequency range 1 kHz ... 10 kHz
10 Hz ... 10 kHz

Speed

Measurement range up to 0 ... 399,9 km/h

Resolution 0.1 mm/s

Accuracy ±2 %

Frequency range 10 Hz ... 1 kHz

Path

Measurement range up to 0 ... 3,9 inch

Resolution 1 inch

Accuracy ±2 %

Frequency range 10 Hz ... 200 Hz

Sensor

Designation PCE-VT 3xxx SENSOR

Dimension Ø 29 x 81 mm

Additional description Resonant frequency: 24 kHz
Cross sensitivity: Δ 5%
Destruction limit: 5000 g (peak)
Housing material: stainless steel
Mounting thread: ¼ - 28 in

General technical data

Number of measuring channels 1

Measuring functions RMS, peak, Peak-peak, Crest factor

Frequency 10 ... 10000 Hz

Display type LCD

Display size 2,8 Inch

Menu language English, German, French, Spanish, Italian, Dutch, Portuguese, Turkish, Polish, Russian, Chinese, Japanese

Protection class (device) IP52

(Rechargeable) battery 3 x 1,5 V AA battery , Alkali-manganese

Capacity 3000 mAh

Operating conditions -20 ... 65 °C , 10 ... 95 % RH

Storage conditions -20 ... 65 °C , 10 ... 95 % RH

Dimensions (L x W x H) 165 x 85 x 32 mm

Other dimensions Vibration sensor Ø17 x 46 mm
Headphone connection 3.5 mm jack

Weight 239 g

Other weights Vibration sensor 52 g