

VIBRATION METER

PCE-VT 1100S



- » Measures speed, distance, acceleration
- » Keeps the value after every measurement
- » Easy to handle and powered by batteries
- » Wide frequency range
- » Automatic shut-down after 20 seconds of inactivity to protect battery life
- » Battery level indicator

The vibration meter is used as a hand-held measuring device for the individual assessment of vibration on machines and systems. With the help of this vibration meter the actual state can easily be determined on-site. Thus, corresponding changes can be made directly on site after the measurement. Thereafter, the new condition can also be assessed. Thus, the vibration meter serves as a measuring device for a relative measurement on different machines.

The vibration meter is essentially for precautionary or preventive maintenance of production machines. This vibration meter is used for rapid measurement of imbalance and for checking bearing and gear conditions. Very often, the vibration meter is also used to assess the status of smaller electric motors.

Specification

Acceleration

Measuring range 0,01 ... 199,9 m/s² peak

Resolution 0,01 m/s² peak

Accuracy ≤3 % of Rd

Frequency range 10 Hz ... 1 kHz

Speed

Measuring range 0,01 ... 199,9 mm/s rms

Resolution 0,01 mm/s rms

Accuracy ±(5% of measured value +2 digits)

Frequency range 10 Hz ... 1 kHz

Displacement

Measuring range 0,001 ... 1,999 mm p-p

Resolution 0,001 mm p-p

Accuracy ±(5% of reading +2 digits); frequency-dependent: 10 ... 20 Hz: +10 / -20% and 20 ... 1000 Hz: ±5%

Frequency range 10 ... 500 Hz

General technical data

Measuring functions HOLD

Display type LCD with backlight

Response time 1 s

Operating time 5 h

Automatic power-off 20 s

Menu language English, English (GB)

Protection class (device) IP20

Power supply batteries

(Rechargeable) battery 2 x 3 V CR 2032 (button cell 3V) , lithium

Capacity 220 mAh

Operating conditions 0 ... 40 °C , 0 ... 84 % RH

Storage conditions 0 ... 40 °C , 0 ... 84 % RH

Dimensions (L x W x H) 155 x 24 x 18,7 mm

Weight 40 g