

ACCELEROMETER

PCE-VT 1100



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

The accelerometer is used as a hand-held measuring device for the individual assessment of vibrations on machines and systems. With the help of this accelerometer, 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 be assessed. Thus, the accelerometer serves as a measuring device for a relative measurement on different machines.

The accelerometer serves essentially as precautionary or preventive maintenance of production machines. Very often, the accelerometer is used to assess the state 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 230 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