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Technical Vibration Meter PCE-VDR 10

PCE-VDR 10 is a single-axis accelerometer or vibration monitor with real-time measurement and data logging capabilities. This vibration analyzer records acceleration (m/s, g, ft/s) as well as speed (mm/s, cm/s, in/s) measurements and saves the measured data to an included SD card memory. Note: To set up the SD card for the first time, the PCE-VDR 10 must be connected to AC power.

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- Measures acceleration (m/s, g, ft/s) and speed (mm/s, cm/s, in/s)
- Adjustable automatic data logging
- SD card memory
- RS-232 and USB interface
- Data can be downloaded to a computer and analyzed using Microsoft Excel
- Backlit LCD screen
- Portable

Technical Specifications

Frequency range 10 ... 1000 Hz

Acceleration measuring 0.5 ... 199.9 m/s, 0.05 ... 20.39 g, 2 ... 656 ft/s

range

(at 50 m/s, 160 Hz)

Resolution 0.1, 0.01, 1

Accuracy \pm (5% of reading + 2 digits)

Speed measuring range 0.5 ... 199.9 mm/s, 0.05 ... 19.99 cm/s, 0.02 ... 7.87 in/s

(at 50 mm/s, 160 Hz)

Resolution 0.1, 0.01, 1

Accuracy \pm (5% of reading + 2 digits)

Display LCD

Display update time update time: 1 second

Memory SD card (included)

Automatic data logging interval 5 ... 3600 seconds (adjustable)

Analog output 4 ... 20 mA

Power supply 6 x 1.5 V AAA batteries or 9 V DC electric power (adapter sold

separately)

Interface RS-232 and USB

Dimensions 132 x 80 x 32 mm (5.20 x 3.15 x 1.26")

Dilivery Contents

1 x Accelerometer PCE-VDR 10

1 x vibration sensor

1 x wall bracket

6 x 1.5 V AAA batteries

1 x SD memory card

1 x screw for 4 ... 20 mA output

1 x user manual