



Vibration Analyzer PCE-VT 2800



PCE-VT 2800 Vibration Analyzer

Measures acceleration, oscillation and shift / True-RMS (TRMS), max-hold, data-hold and peak-value functionality / SD memory

The PCE-VT 2800 measures acceleration, oscillation speed and shift of vibrating parts, machines and equipment. The device features an integrated data logger to record vibration measurements over time. Measurement data is stored on an SD card memory and can be transferred directly to a PC via USB or RS-232 interface.

The device also includes features such as the data hold and data release functions (accessed in RMS mode), allowing you to freeze displayed values and show maximum and minimum values respectively. The device menu offers settings such as time / date, automatic power off, beep-tone switch, sampling rate adjustment and formatting of the SD memory card.

****AC power adapter, ISO calibration certificate, and data evaluation software with USB cable sold separately. See accessories for details****

- Frequency range: 10 Hz ... 1 KHz
- True-RMS (TRMS), max-hold, data-hold and peak-value functionality
- Adjustable sampling rate, automatic power off and time / date
- Power supply via battery or electric power (power adapter sold separately - see accessories)
- Backlit LCD screen
- Accommodates SD cards 1 ... 16 GB

Subject to change

Specifications

Technical specifications

Frequency range	10 Hz ... 1 KHz
Sampling time	Auto / manual, adjustable
Data storage	1 GB ... 16 GB SD memory card
Data error	≤ 0.1 % of all stored data
Data output	RS-232 interface / USB port
Sampling time (display)	Approx. 1 second
Display	LCD (52 x 38 mm / 2.05 x 1.50"), greenbackground light
Operating conditions	0 °C ... +50 °C / +32 °F ... 122 °F; < 85%relative humidity (RH)
Power supply	Alkaline battery 1.5 V DC (UM3, AA) orequivalent (electric power adapter sold separately - seeaccessories)
Weight	0.52 kg / 1.1 lbs
Dimensions	203 x 76 x 38 mm / 8.0 x 3.0 x 1.5"
Acceleration	
Measurement functions	TRMS, max hold, peak
Measurement range	0.5 m/s ² ... 199.9 m/s ² ; 0.05 g ... 20.39 g;1.6 ft/s ² ... 656 ft/s ²
Resolution	0.1 m/s ² ; 0.01 g; 0.3 ft/s ²
Accuracy	± 5% + 5 digits from measured value at 160Hz, 80 Hz, 23 ± 5 °C
Calibration point	50 m/s ² ; 164 ft/s ² (160 Hz)
Speed	
Measurement functions	TRMS, max hold, peak
Measurement range	0.5 m/s ... 199.9 m/s; 50 cm/s ... 20000cm/s; 20.0 in/s ... 7.9 in/s
Resolution	0.1 m/s; 0.01 g; 0.3 ft/s
Accuracy	± 5% + 5 digits from measured value at 160Hz, 80 Hz, 23 ± 5 °C
Calibration point	50 mm/s; 2.0 in/s (160 Hz)
Shift	
Measurement functions	Peak to peak (p-p); max hold p-p
Measurement range	1.999 mm; 0.08 in
Resolution	0.001 mm; 0.00004 in
Accuracy	± 5% + 5 digits from measured value at 160Hz, 80 Hz, 23 ± 5° C
Calibration point	0.141 mm; 0.006 in (160 Hz)

More information

Manual



More product info



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