

Vibration Meters

PCE-S 41

Electronic vibration meter for inspection and machine maintenance

This battery powered electronic vibration meter is used to measure noises in machines, e.g. in fans or pistons. This unit gives the user the opportunity to identify problem areas before they cause a machine to breakdown (preventative maintenance). This vibration meter is an entry level product which is an easy to use, versatile unit which comes complete with transducer, probe and carrying case. The headphones of the vibration meter are equipped with two adjustable auditory protectors and a 1m cable.

- Suitable for inspection and maintenance (to find potential machine malfunctions)
- Revolving switch for volume control
- ABS plastic enclosure
- With two needles (70 + 290 mm)



Technical specifications

Measurement range	100 Hz to 10 kHz
Volume	adjustable
Tweeter	8 W
Operating conditions	-10 to +55 °C
Power	9 V battery included
Enclosure	ABS
Dimensions	meter: 206 x 50 x 32 mm sensor: 1 x 290 mm ; 1 x 70 mm (length)
Sensor	stainless steel
Weight	240 g with battery included



Contents

PCE-S 41 vibration meter, headphones with 1m cable, battery, 70 and 290 mm sensors, carrying case and user's manual

Model No.	Description
PCE-S 41	Electronic vibration meter



PCE-VT 1000 & PCE-VT 2600

Pocket-sized device to measure vibration velocity in machines and installations

The vibration meter is used primarily for the preventative maintenance of production machinery and installations. This vibration meter quickly measures imbalance and tests the state of mechanisms. It is also used to check small electromotors.

- Measures the velocity of vibration; The PCE-VT 2600 also measures acceleration of vibration and displacement
- Retains reading after each measurement
- Easy to use, powered by batteries
- Wide frequency range
- Automatic shut-off after two minutes of inactivity
- Advises when battery needs changing



Technical specifications

Measurement ranges	PCE-VT 1000	PCE-VT 2600
- acceleration	---	0.01 to 199.9 m/s ²
- velocity	0.1 to 199.9 mm/s	0.01 to 199.9 mm/s
- displacement	---	0.001 to 1.999 mm
Resolution		
- acceleration	---	0.01 m/s ²
- velocity	0.1 mm/s	0.01 mm/s
- displacement	---	1 µm
Accuracy	±5 %	±5 %
Frequency ranges		
- acceleration	---	10 Hz to 1 kHz
- velocity	10 Hz to 1 kHz	10 Hz to 1 kHz
- displacement	---	10 Hz to 500 Hz
Indicator	display LCD with 3.5 digits, with Data Hold function	
Power	2 batteries (1.5 V) CR 2032, approx. 5 hours of continuous operation	
Operating conditions	0 to +40 °C, < 85 % r.h.	
Dimensions	150 x 22 x 15 mm	
Weight	100 g	

Contents

Pen vibration meter, leather case, batteries and user's manual

Model No.	Description
PCE-VT 1000	Pen vibration meter
PCE-VT 2600	Pen vibration meter

Optional accessories

CAL-V-I	ISO Certificate for PCE-VT 1000
CAL-V-II	ISO Certificate for PCE-VT 2600



PCE-VT 2000

Pen vibration meter for velocity (RMS) and acceleration (peak)

The pen vibration meter is basically used for preventative maintenance in machines and installations by measuring velocity and acceleration. This pocket tester is ideal for personal maintenance and repair technicians. This instrument can be used anywhere as it is powered by batteries.

- Measures velocity and acceleration
- Data hold, Memory (max., min.)
- Large display
- Wide frequency range
- Shows low battery indicator
- Auto-Power-Off



Technical specifications

Measurement ranges	
- acceleration	0.1 to 199.9 m/s ²
- velocity	0.1 to 199.9 mm/s
- displacement	---
Resolution	
- acceleration	0.1 m/s ²
- velocity	0.1 mm/s
- displacement	---
Accuracy	±5 %
Frequency ranges	
- acceleration	10 Hz to 1 kHz
- velocity	10 Hz to 1 kHz
- displacement	---
Indicator	display LCD, 20 x 28 mm
Power	4 AAA batteries (1.5 V);
Operating conditions	0 to +50 °C, < 80 % r.h.
Dimensions	175 x 40 x 132 mm
Weight	240 g

Contents

Pen vibration meter, 30 mm needle probe, magnetic plate, batteries, carrying case and user's manual

Model No.	Description
PCE-VT 2000	Pen vibration meter

Optional accessories

CAL-V-I	ISO Certificate for PCE-VT 2000
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