VIBRATION DATA RECORDER

PCE-VDR 10-ICA



- **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**
- **incl. ISO-Calibration Certificate**

The 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.

All industrial machinery vibrates. The level of vibration is a useful indicator to machine condition. Poor balance, misalignment and looseness of the structure will cause a vibration level increase, it is a sure sign that maintenance is needed to prolong the machine life.

Specification

Acceleration	
Measuring range	0,5 ... 199,9 m/s²
Resolution	0,1 m/s²
Accuracy	±(5% of measured value +2 digits)
Frequency range	10 Hz ... 1 kHz
Acceleration	
Measuring range	0,05 ... 20,39 g
Resolution	0,01 g
Accuracy	±(5% of measured value +2 digits)
Acceleration	
Measuring range	2 ... 656 ft/s²
Resolution	1 ft/s²
Accuracy	±(5% of measured value +2 digits)
Speed	
Measuring range	0,5 ... 199,9 mm/s
Resolution	0.1 mm/s
Accuracy	±(5% of measured value +2 digits)
Frequency range	10 Hz ... 1 kHz
Speed	
Measuring range	0,05 ... 19,99 cm/s
Resolution	0.01 cm/s
Accuracy	±(5% of measured value +2 digits)
Speed	
Measuring range	0,02 ... 7,87 inch/s
Resolution	1 inch/s
Accuracy	±(5% of measured value +2 digits)

General technical data	
Outputs	4 ... 20mA
Display Typ	LCD with illumination
Display size	2,46 Inch
Display refresh rate	1 x per second
Storage medium	SD card
Storage interval from	5 s
Storage interval until	3600 s
Interface	USB, RS232
Menu language	English (US), English (GB)
Protection class (device)	IP20
Power supply	Batteries Power supply: 9V DC
Battery/battery	6 x 1,5 V AAA Battery (1,5V) , Alkali-Manganese
Battery capacity	1200 mAh
Operating conditions	0 ... 50 °C , 0 ... 85 %RH
Storage conditions	0 ... 50 °C , 0 ... 85 %RH
Dimensions (L x W x H)	132 x 80 x 32 mm
Weight	199 g

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