PIEZOELECTRIC VIBRATION SENSOR INCLUSIVE DISPLAY

PCE-PVS 10-DPD-U



- **Piezoelectric Vibration Sensor PCE-PVS 10:**
- **vertical mounting**
- **Process signal output**
- **MIL-C-5015 connector**
- **M6 process connection**
- **different measuring ranges**
- **robust construction**
- **built-in panel indicator PCE-DPD-U:**
- **Front IP 65**
- **different units possible**

The piezoelectric vibration sensor inclusive display was developed for the continuous monitoring of vibration velocity. The piezoelectric vibration sensor inclusive display is available in various designs. Depending on the type of piezoelectric vibration sensor inclusive display, a distinction is made between design and measuring range. The piezoelectric vibration sensor inclusive display measures vibration velocity within a range of ± 12.7 mm/s in the frequency range between 3 Hz and 1500 kHz.

The measured vibration velocity is output as a 4 to 20 mA process current. The vibration sensor is connected to a controller or process display in a current loop via a MIL-C-5015 connector. Due to the design, the connection socket is mounted vertically on the vibration sensor. The vibration sensor can be operated with a voltage of 12 to 24 V DC.

The panel-mounted measuring instrument is configurable as an AC and DC voltmeter (up to 600 Vac/DC) and an AC and DC ammeter (up to 5 Aac/DC). Furthermore, the panel-mounted measuring instrument displays measured values of process signals (mA, VDC), thermocouples, resistive temperature sensors (Pt, Ni, PTC, and NTC), resistors, potentiometers, and frequency. The panel-mounted measuring instrument is configurable using the front-panel buttons. The panel-mounted measuring instrument is installed in a standard panel cutout size of 96 x 48 mm (1/8 DIN).

Specification

Speed	
Measuring range	0 ... 12,7 mm/s
Resolution	0.07 mm/s
Accuracy	5 %

General technical data	
Inputs	Pt500, Pt1000, Ni100, Ni200, Ni1000, 4 ... 20 mA, 0 ... 10V DC, Thermocouple J, Thermocouple K, Thermocouple T, Thermocouple E, Thermocouple S, Thermocouple R, Thermocouple N, Thermocouple C, Thermocouple B, Thermocouple L, Pt100 3-wire, Pt100 2-wire
Outputs	4 ... 20 mA
Outputs	2 conductors 4 ... 20 mA
Cable length	5 m
Connections	2-pin MIL-C-5015
Frequency	0 ... 100 Hz
Display type	LED
Digit size [WxH]	H: 14 mm
Measuring rate	3 x per second
Warm-up time	15 min
Housing	ABS (acrylonitrile-butadiene-styrene copolymers)
Bandwidth	3 ... 1500 Hz
Overload protection	±1000 g (short-term shock)
Mounting	Panel
Insulation	1500V RMS
Dimensions	Front size: 96 x 48 mm Panel cut-out: 92 mm x 45 mm (according to DIN)
Sensitivity	<5%
Max. input voltage	≤30V DC
Display range	-199999 ... 999999
Additional description	Input impedance: dependent on the input signal and measuring range
Protection class (device)	IP65
Power supply	PCE-PVS 10: 15 ... 30V DC PCE-DPD-U: 18 ... 265V AC/DC
Operating conditions	-40 ... 85 °C , 10 ... 95 % RH
Storage conditions	-40 ... 85 °C , 10 ... 95 % RH
Dimensions (L x W x H)	55 x 22 x 22 mm
Weight	82 g