

Piezoelectric Accelerometer PV-97

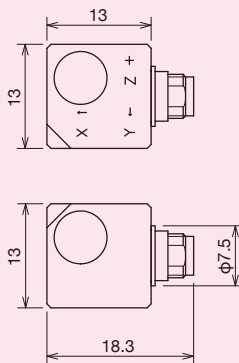
High Temperature Type

3-Axis

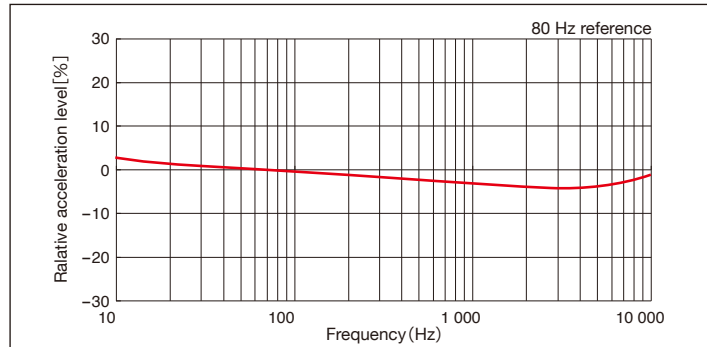


- Press fit section reinforced by laser machining
Can be used at temperatures up to **200 °C**

■ Dimensions (mm)



■ Typical frequency response of the PV-97



■ Noise Level ACC (Acceleration m/s²) (Typical)

Vibration Meter	VM-83	0.1
Vibration Meter Unit	UV-15	0.1
2ch Charge Amplifier	UV-16	0.1

Specifications

*Unless noted otherwise, data are representative values at 23 °C

Principle	Piezoelectric acceleration detection, plate shear type
Number of components	3 (3-axis orthogonal coordinate system)
Charge sensitivity ※1	Approx. 0.29 pC/(m/s ²) (80 Hz)
Vibration Frequency range ※2	1 Hz to 10 000 Hz, 1 to 5 000 (X / Y) (±10 %)
Max. transverse sensitivity ratio	5 % or less (30 Hz)
Maximum measurable acceleration	5 000 m/s ² (peak value)
Capacitance	Approx. 500 pF (1 kHz)
Base distortion sensitivity	0.1 (m/s ²) / μstrain or less (using 3 Hz HPF)
Thermal transient response	1.0 (m/s ²) / °C or less (using 3 Hz HPF)
Case insulation	Non-insulated
Case material	Titanium alloy
Standard mounting method ※3	Adhesive mounting
Connection	Small 4-pin connector
Polarity	Positive charge output corresponding to acceleration in direction indicated by arrow on case
Ambient temperature range for operation / °C	-50 °C to +200 °C
Dimensions	Approx. 13 (H) x 13 (W) x 13 (D) mm (excl. connector)
Mass	Approx. 10 g
Cable	3-axis low-noise cable VP-51WL for PV-97

Note ※1 Representative value. Actual values are given on calibration sheet supplied with accelerometer.
 ※2 Representative value when mounted on flat surface with standard mounting method (※3).

- The piezoelectric element in a piezoelectric accelerometer may be damaged by excessive shock. Take care not to drop the accelerometer, and handle it with care when using the magnetic attachment.



JCSS
JCSS 0197

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