

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 (Z), 1 to 5 000 (X / Y) (±10 %)		
Transverse sensitivity ratio	5 % or less (30 Hz)		
Maximum measurable acceleration	5 000 m/s² (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 ³³	Adhesive mounting		
Connection	Small 4-pin connector		
Polarity	Positive	e charge output correspo	onding to acceleration in
	direction	n indicated by arrow on o	case
Ambient temperature range	−50 °C	to +200 °C	
for operation / °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		

*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



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