



Piezoelectric Accelerometer

PV-90T



- ■With built-in amplifier, compact and lightweight
- Suitable for vibration measurement and mode analysis of lightweight structures.
- Available for reading sensor parameters by connecting to TEDS applicable instruments

Manufacturer ID, Model Number, Serial Number, Sensitivity, Sensitivity Direction, Weight, Polarity, Reference Frequency, Reference Temperature, Calibration Date, etc.

Piezoelectric Accelerometers Compact, lightweight, TEDS applicable **High-Temperature** Compact, tri-axial With built-in amplifier Resistance CCLD Type Photo Model Specifications Principle Shear Shear Shear Mass g 2 8 1.8 Voltage sensitivity mV/(m/s2) 0.5 1.1 Vibration frequency range Hz 1 to 7 000 (Z)**4 1 to 5 000 (X·Y) (±10 %) 1 to 20 000 (±10 %) 1 to 12 000 (±10 %) Mounting resonance frequency kHz 50 55 5 % or less Transverse sensitivity 5 % or less 5 % or less Standard mounting method, Screw torque N-m VP-53K M3 screws • 0.5 VP-53K M3 screws • 0.5 Bond Maximum measurable acceleration m/s2 (peak) 7 000 5 000 5 000 Base distortion sensitivity (m/s²)/ μ strain 0.05 0.1 0.006 Thermal transient response (m/s2) / °C 1.0 0.04 ** Ambient temperature range for operation / °C -20 to +100 (TEDS: -20 to +85) -20 to +125 -50 to +170 Case material Titanium Titanium Connecting equipment 2 mA to 4 mA regulated power supply 2 mA to 4 mA regulated power supply 2 mA to 4 mA regulated power supply External dimensions mm 0. Dimensions mm 7 (Hex) ×11.4 (H) 12 (H)×12 (W)×12 (D) 7 (Hex)×12.5 (H) Supplied Cable VP-51LC VP-51W VP-51LC accessories VP-53K×2,VP-53W×1 VP-57ES (Option) VP-53K×2, VP-53W×1 Attachment, Single-head spanner (7 mm), Single-head spanner (7 mm), Hex wrench 1.5 Hex wrench 1.5

1 Representative value; actual value is noted on calibration sheet supplied with accelerometer. **2 Representative value when mounted on flat surface according to standard mounting method (3). **4 100 °C or less 1 000 m/s² or less **5 150 °C to 170 °C from 1 Hz to 2 Hz (±15 %) **6 The maximum measurable acceleration differs, depending on temparature, voltage sensitivity, and power supply voltage. **7 Representative value.PV-90T/97I/41 denotes maximum value.

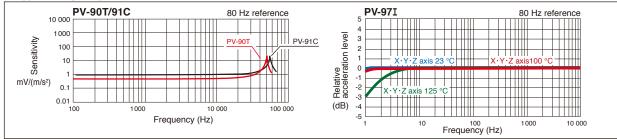
• Please take care not to drop accelerometers and carefully handle them with attachments.

There is likely to be trouble of piezoelectric accelerometers by (giving) excessive shock. The excessive shock carries some damages onto piezoelectric ceramic element.

■ Noiselevel of acceleration (m/s²)

General-Purpose Vibration Meter VM-83	0.2	0.04	0.1
Vibration Level Meter Unit UV-15	0.2	0.04	0.1
2-channel Charge Amplifier UV-16	0.2	0.04	0.1

Typical frequency characteristics





JCSS 0197

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Distributed by:



3-20-41, Higashimotomachi, Kokubunji, Tokyo 185-8533, Japan Tel: +81-42-359-7888 Fax: +81-42-359-7442