



Piezoelectric Accelerometer

PV-91CH **NEW**

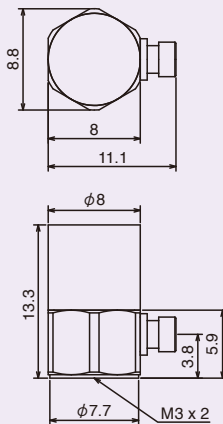
High-Temperature Resistance CCLD Type



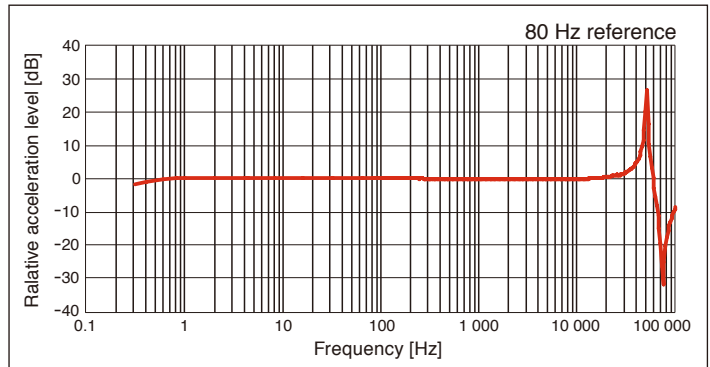
High Sensitivity

- **11 mV/(m/s²)** high-sensitivity type
- High-temperature resistance CCLD type: Supports operation in environments up to **170 degrees** centigrade
- Compact and lightweight design minimizes interference with measurement object, ensuring high measurement accuracy

External dimensions



Typical frequency response of the PV-91CH



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

Vibration Meter	VM-83	0.007
Vibration Meter unit	UV-15	0.007
2ch charge amplifier	UV-16	0.007

Specifications

Principle	Shear
Voltage sensitivity (80 Hz) ^{※1}	11 mV / (m/s ²) ± 15 % (23 °C)
Vibration frequency range Hz ^{※2}	1 Hz to 15 kHz (± 10 %) 0.6 Hz to 20 kHz (± 20 %) 0.5 Hz to 20 kHz (± 30 %)
Mounting resonance frequency kHz ^{※2}	approx. 50 kHz
Maximum measurable acceleration m/s ² (peak) ^{※3}	450 m/s ² (Peak)
Transverse sensitivity	5 % or less (30 Hz, 23 °C)
Base distortion sensitivity (m/s ²) / μ strain	0.005 (m/s ²) / μ strain (TYP.) (When using 3 Hz high-pass filter, 23 °C)
Thermal transient response (m/s ²) / °C	0.07 (m/s ²) / °C (TYP.) (When using 3 Hz high-pass filter, 23 °C)
Standard mounting method ^{※4}	M3 screw 0.5 N·m
Case material	Titanium
Ambient temperature range for operation / °C	-50 °C to +170 °C
Power supply (CCLD)	DC18 V to 30 V (2 mA to 4 mA), rated voltage 24 V
Dimensions	8 mm (Hex) x 13.3 mm (H) (Excluding connector)
Mass	approx. 3 g
Supplied accessories	Ultra-compact accelerometer cable (with ferrite core) VP-51LC (2 m) x 1, M3 screw VP-53K x 2, Insulation attachment VP-53W x 1, Single-head spanner (8 mm) x 1, Hex wrench x 1

Note

- ※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 (※4)
- ※3 The maximum measurable acceleration differs, depending on temperature, voltage sensitivity, and power supply voltage.
- The internal chip and 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

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* Specifications subject to change without notice.

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