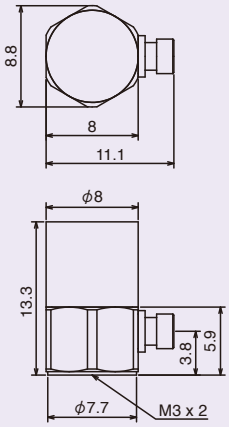
Piezoelectric Accelerometer PV-91CH

High-Temperature Resistance CCLD Type

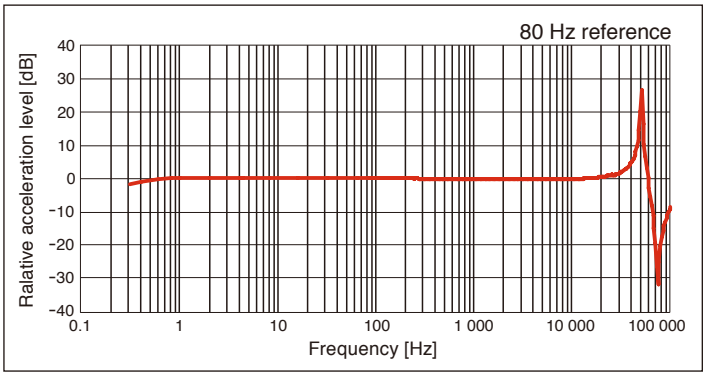
High Sensitivity

- **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	1 1 mV / (m/s²) ±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/s² (peak) ※3	450 m/s² (Peak)
Transverse sensitivity	5 % or less (30 Hz, 23 °C)
Base distortion sensitivity (m/s²) / μ strain	0.005 (m/s²) / μ strain (TYP.) (When using 3 Hz high-pass filter, 23 °C)
Thermal transient response (m/s²) / °C	0.07 (m/s²) / °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 temparature, 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.

＊Specifications subject to change without notice.

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