

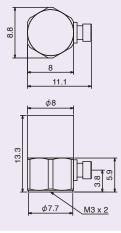
Piezoelectric PV-91CH

High-Temperature Resistance CCLD Type



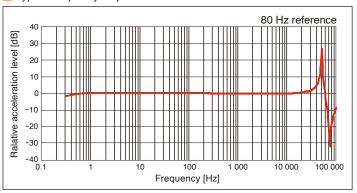


- 11 mV/(m/s²) high-sensitivity type
- High-temperature resistance CCLD type: Supports operation in environments up to 170 degrees centigrade
- Compact and lightweight design minimizes interference with measurement object, ensuring high measurement accuracy
- External dimensions



Piezoelectric Accelerometer

■ Typical frequency response of the PV-91CH



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

Vibration Meter	VM-83	0.01
Vibration Meter unit	UV-15	0.01
2ch charge amplifier	UV-16	0.01

Specifications

Specifications		
	Principle	Shear
	Voltage sensitivity (80 Hz) ^{★1}	11 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/s ² (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)
	Thermal transient response (m/s²) / °C	0.07 (m/s²) / °C (TYP.) (When using 3 Hz high-pass filter)
	Standard mounting method **4	M3 screw 0.5 N·m
	Case material	Titanium
	Ambient temperature range for operation / $^{\circ}\text{C}$	−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) × 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.



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ISO 14001 RION CO., LTD. ISO 90 0 1 RION CO., LTD.

* Specifications subject to change without notice

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