**Piezoelectric Accelerometer 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**

![Diagram of external dimensions]

- **Noise Level ACC (Acceleration m/s²) (Typical)**
  - Vibration Meter: 11 mV / (m/s²) ±15 % (23 °C)
  - Vibration Meter unit: 0.007
  - 2ch charge amplifier: 0.007

- **Specifications**
  - **Principle**: Shear
  - **Voltage sensitivity (80 Hz)**: 1.1 mV / (m/s²) ±15 % (23 °C)
  - **Vibration frequency range Hz**:
    - 1 Hz to 15 kHz (±10 %)
    - 0.6 Hz to 20 kHz (±20 %)
    - 0.5 Hz to 20 kHz (±30 %)
  - **Mounting resonance frequency kHz**: approx. 50 kHz
  - **Maximum measurable acceleration m/s² (peak)**: 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.)
  - **Thermal transient response (m/s²) / °C**: 0.07 (m/s²) / °C (Typ.)
  - **Standard mounting method**: 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 (9-4)
  - 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.

Specifications subject to change without notice.

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