

Applications

- **Verification, analysis and measurement of vibration in buildings and industrial environments: compressors, Motors, pumps, heating, ventilation, air conditioning, cooling towers, lifts, presses, etc.**

Main features

- **ICP[®] compatible Accelerometer**
- **Sensitivity: 100 mV/g**
- **Frequency range (10 %): 0,3 Hz – 14 kHz**

The **AC001** is a piezoelectric accelerometer intended for general purpose. It is designed with a piezoelectric crystal in shear mode. Because it is an active transducer, the **AC001** requires a constant current source to power the internal circuitry that gives it low internal impedance.

The resistant coating of its case and double sealed design makes the **AC001** accelerometer in the suitable transducer for different applications and environments: industrial, building, extreme environments conditions, etc.



It is very easy to mount, both for short duration measurements, (it has several accessories available for magnetic or contact fixing) and in permanent installations (removable mounting stud). The **AC001** is supplied with a BNC connector ended cable to connect it to instruments with ICP[®] devices input.

Characteristics

- Sensitivity: 100 ± 5% mV/g
- Frequency response:
 - ± 10% → 0.3 - 14,000 Hz
 - ± 3 dB → 0.13 - 22,000 Hz
- Mounted resonance: > 23 kHz
- Noise (typical): at 10 Hz → 3 μg/√ Hz
- at 100 Hz → 1 μg/√ Hz
- Output Impedance: < 130 Ω
- Output Bias Voltage: 12 to 14 V
- Power requirements: 2 - 20 mA cc
- Amplitude range: ± 55 g
- Shock limit: 4000 g

Environmental data

- Working temperature range: -20 to 120 °C

Physical data

- Dimensions: 4.5 x Ø1.9 cm
- Weight without cable: 65.5 g
- Case material: stainless steel
- Mounting stud (removable): M8

The characteristics, technical specifications and accessories may vary without prior notice