CESVA
acoustic instruments

AC001

Accelerometer

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.

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Technical specifications

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	ºC

Physical data

• Dimensions:	4.5 x ∅1.9	cm
• Weight without cable:	65.5	g
• Case material:	stainless steal	
• Mounting stud (removable):	M8	

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

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