

Applications

- Measurement of the human exposure to whole-body vibration in buildings.
- Verification, analysis and measurement of measurements generated by machines.

Main features

- ICP® compatible Accelerometer
- Sensitivity: 1000 mV/g
- Low noise
- Frequency Range ($\pm 10\%$): 0,35 – 2600 Hz

The AC006 accelerometer is the perfect transducer for the measurement of the human exposure to whole-body vibration in buildings and structural vibrations produced by heating, ventilation and air conditioning machinery, traffic, presses, lifts, railway trains, etc. the AC006 offers also a high reliability in industrial environments

The AC006 is high sensitivity piezoelectric accelerometer. Its main feature in the measurement of the human exposure to different kinds of vibration is its excellent response to low frequencies. It is designed with a piezoelectric crystal in shear mode, virtually eliminating base strain, thermal transients and other phenomena that are accentuated at low frequencies. Because it is an active transducer, the AC006 requires a constant



current source to power the internal circuitry which gives it low internal impedance.

The AC006 has a stainless steel construction and internal electrical insulation. It is very easy to mount, both in short duration measurements (it has accessories for magnetic or contact fixing) and in permanent installations (removable mounting stud). The AC006 is supplied with BNC connector ended cable to connect it to instruments with ICP® devices input.

Characteristics

• Sensitivity:	1000 ±10%	mV/g
• Frequency response:		
± 10 % →	0,35 - 2600	Hz
± 3 dB →	0,15 - 4000	Hz
• Mounted resonance:	> 7	kHz
• Noise (typical): at 10 Hz →	0,3	µg/√ Hz
at 100 Hz →	0,1	µg/√ Hz
• Output Impedance:	< 250	Ω
• Power requirements:	2 - 20	mA cc
• Amplitude range:	± 5	g
• Shock limit:	1000	g

Environmental data

• Working temperature range:	-20 to 80	°C
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Physical data

• Dimensions:	4,6 x Ø3,2	cm
• Weight without cable:	165	g
• Case material:	stainless steel	
• Mounting stud (removable):	M8	

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