

Accelerometer A4580

for Vibration Analysis



Accelerometer A4580

The uniaxial piezoelectric accelerometer has been designed for analyzing the vibrations of massive devices with slight excursions up to strong impacts. With its low weight of 45 g the A4580 can be used for many applications. It can be mounted to the device under test (DUT) with an M5 screw or by using the included magnet.

Properties

- Uniaxial precision accelerometer with compression ceramic
- Vibration analysis over a wide amplitude & frequency range
- ICP® output allows long cables under harsh EMI conditions
- Sturdy stainless steel housing
- Flexible mounting via M5 thread or magnet

Specifications

Design	Piezo compression ceramic
Power supply	ICP®, 2 to 20 mA
Sensitivity	typ. 80 mV/g, 8.16 mV/(m/s ²) ±20% @ 80 Hz
Linear frequency range	±30% from 3 Hz to 15 kHz ±10% from 6 Hz to 10 kHz ±5% from 9 Hz to 7 kHz
Measurement range	75 g
Residual noise	80 µg
Mounting	M5 internal thread (<i>in case of magnetic fixation: first attach the magnet to the surface, then mount the sensor to the magnet</i>)
Case	D x L = 19 x 30 mm, stainless steel
Weight (sensor only)	45 g (1.6 oz)
Cable socket	UNF10-32
Temperature range	-10 to +120 °C (14 to 248 °F)
Scope	Magnet D20 mm x H5 mm with M5 thread; adaptor cable Microdot-BNC, length approx. 2 m
Storage	Please unscrew the mounting magnet from the sensor for storage, and keep the two parts away from each other (by few cm)
Order information	<ul style="list-style-type: none"> • Accelerometer A4580 NTi Audio # 600 010 349 • ICP® Adapter ASD for operation with XL2 NTi Audio # 600 010 223

All data are subject to change without notice.
ICP® is a registered trademark of PCB Piezotronics.