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# AC033

## *Triaxial IEPE accelerometer*

### Applications

- **Measurement of exposure of the workers to vibrations transmitted to whole body**
- **Verification, analysis and measurement of vibration in accordance with ISO 2631 -1 and 2002/49/EC**

### Main features

- **Triaxial IEPE accelerometer**
- **Sensitivity: 100 mV/g**
- **Frequency range (± 10%):**
  **0.25 – 4000 Hz**

The AC033 accelerometer is the perfect transducer to measure the exposure of workers to vibrations transmitted to whole body. This triaxial accelerometer, incorporated into flexible silicone pad, can measure simultaneously the vibration in the three axes.

The accelerometer has the AA033 mounting accessory to attach it to the seat or backrest. This strap adapter should be passed through the holes of the silicone pad and then secured the vibrating element (seat, backrest, platform,...). It is important that there is a close contact between the accelerometer and the human body.



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## *Accessories and technical specifications*

Strap adapter AA033

### Supplied accessories

**AA033** Strap adapter

### Characteristics

| | | |
|---|---|---|
| • Output: | IEPE | |
| • Transducer: | Piezoelectric | |
| • Design of the accelerometer: | Bending | |
| • Sensitivity: | 100 ± 5% | mV/g |
| • Dynamic acceleration range: | ± 60 | g |
| • Maximum shock acceleration: | 1000 | g |
| • Frequency range ($f_{10\%}$): | 0.25 .. 4000 | Hz |
| • Resonance frequency: | 10 | kHz |
| • Cross sensitivity: | < 5 | % |
| • Intrinsic noise (20.. 50 kHz): | < 200 | µg |
| • Constant power feed current: | 2 – 20 | mA |
| • Polarisation output voltage: | 8 – 12 | V |

### Environmental Characteristics

| | | |
|---|---|---|
| • Operating range: | -30 to 90 | ºC |
| • Temperature sensitivity gradient: | 5 | $ms^{-2}/K$ |
| • Grado de protección: | IP60 | |

### Mechanical Characteristics

| | | |
|---|---|---|
| • Weight without cable: | 310 | g |
| • Housing material: | Aluminium / Silicone | |
| • Connector: | BINDER 712 (4 contacts) | |
| • Mounting: | On seat or with strap | |

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



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