



Piezoelectric Accelerometer Type CA 202

FEATURES

- Industrial vibration monitoring
- High sensitivity
- Differential output
- Hermetically welded
- Internal case insulation
- Integral cable



DESCRIPTION

The CA 202 accelerometer features a symmetrical shear mode polycrystalline measuring element which has internal case insulation. The transducer is designed for heavy-duty industrial vibration

monitoring and measurement. The accelerometer is fitted with an integral cable protected by a stainless steel flexible tube welded to the case.

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2 / 4

SPECIFICATIONS *(Continued)*

Capacitance (nominal)

- *Pole to pole* : 4500 pF for transducer + 110 pF/m of cable
- *Pole to casing* : 10 pF for transducer + 220 pF/m of cable

CALIBRATION

Dynamic calibration at factory at 5 g peak and 120 Hz (+23°C). No subsequent calibration necessary.

ENVIRONMENTAL

Temperature range

- *Transducer* : -55°C to +260°C operation
: -70°C to +280°C survival
- *Cable* : -55°C to +200°C operation
: -62°C to +250°C survival

Temperature error

- -55°C to +23°C : 0.25%/°C
- +23°C to +200°C : 0.08%/°C
- +200°C to +260°C : 0.25%/°C

Shock acceleration : ≤ 1000 g peak (half sine wave, 1 ms duration)

Explosive atmosphere : Available in Ex version. EC type examination certificate :
LCIE 02 ATEX 6179 X II 1 G (Zones 0, 1, 2) EEx ia IIC T6 to T1



For specific parameters of the mode of protection concerned and special conditions for safe use, please refer to the “EC type examination certificate” that is available from Vibro-Meter SA on demand.

Corrosion, humidity : Stainless austenitic steel, hermetically welded

Base strain sensitivity : 3×10^{-3} g/με at 250 με peak-peak

MECHANICAL

Cable : 2 pole twisted and shielded

Mounting : 4 Allen screws, size M6x35, with M6 spring-lock washers, screw torque 15 Nm.
No need for electrical insulation of mounting surface.

WEIGHT

- *Accelerometer only* : 250 g nominal
- *Cable* : 135 g/m

ACCESSORIES

JB 105 / JB 106

Junction box

IPC 704

Signal conditioner

ORDERING INFORMATION

To order please specify Ordering Number :

Cable length	Ordering Number	
	Standard Version	Exi Version
3 m	144-202-000-203	144-202-000-103
6 m	144-202-000-403	
11 m	144-202-000-803	



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