



144-202-000-206

CA202 Piezoelectric Accelerometer

Product scope

- Generates a 100 pC/g charge signal over a 0.01 to 400 g peak dynamic range.
- Uses a sealed austenitic stainless-steel body with an integral 3 m protected cable.
- Maintains the specified $\pm 5\%$ response from 0.5 to 6000 Hz with the matching charge converter.

Manufacturer source

Vibro-Meter CA202 piezoelectric accelerometer data sheet, document DS 262-020, version 10.

This web-optimized copy contains only verified information relevant to the stated ordering code.

Request a fast quote	Product reference	
Email: info@apterpower.com Phone: +86 18106909650 apter.com/inquiry.php	144-202-000-206	

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144-202-000-206 verified configuration

CA202 Piezoelectric Accelerometer

Exact product identity

Vibro-Meter 144-202-000-206 is a CA202 charge-output accelerometer with a 3 m integral cable for high-temperature rotating-machinery vibration measurement.

Product classification

Manufacturer: Vibro-Meter

Product family: CA202 Piezoelectric Accelerometers

Product type: High-Temperature Charge Accelerometer

Installation attention

144-202-000-206 has different temperature limits for the sensor and its integral cable; route the 3 m lead away from surfaces above 200°C.

144-202-000-206 technical specifications

Verified product data · section 1 of 2

Parameter	Verified value
Ordering number	144-202-000-206
Sensor type	CA202 piezoelectric accelerometer
Integral cable length	3 m
Signal system	2-pin, insulated from case
Output type	Charge output
Signal conditioner	IPC70x charge converter
Sensitivity	100 pC/g $\pm 5\%$ at 120 Hz and 5 g
Dynamic range	0.01 to 400 g peak
Spike overload	Up to 500 g peak
Linearity, 0.01 to 20 g	$\pm 1\%$
Linearity, 20 to 400 g	$\pm 2\%$
Transverse sensitivity	$\leq 3\%$

144-202-000-206 technical specifications

Verified product data · section 2 of 2

Parameter	Verified value
Nominal resonant frequency	>22 kHz
Frequency response	0.5 to 6000 Hz, ±5%
Internal insulation resistance	10 ⁹ Ω minimum
Sensor capacitance	5000 pF pin-to-pin nominal
Cable capacitance	105 pF/m pin-to-pin nominal
Sensor operating temperature	-55 to +260°C
Integral cable operating temperature	-55 to +200°C
Sensor survival temperature	-70 to +280°C
Humidity resistance	Hermetically sealed for 100% RH
Shock acceleration	≤1000 g peak, half-sine, 1 ms

144-202-000-206 application and integration guide

CA202 Piezoelectric Accelerometers

Applications

- Measures casing vibration on steam, gas and hydro turbines operating near elevated process temperatures.
- Feeds charge-based protection and monitoring channels on compressors, generators and other critical rotating assets.
- Supports permanent installations exposed to steam, oil, salt atmosphere and high relative humidity when mounted correctly.

Model-specific integration points

Sensor Interface

- The two-pin charge output is electrically insulated from the sensor case to reduce grounding conflicts.
- An IPC70x charge converter supplies the required signal conditioning outside the accelerometer body.
- Nominal sensor and cable capacitance must be included when checking the complete measurement-chain input.

Temperature Range

- The sensing head operates continuously from -55 to +260°C and survives short exposure to +280°C.
- Its integral cable is limited to +200°C in continuous service and +250°C for short-term survival.
- Temperature gradients should be managed so the cable transition remains below its own documented limit.

Environmental Ratings

- The welded sensor and protection hose form a leak-tight assembly for 100% relative humidity.
- Stainless-steel construction resists water, steam, oil and sea-salt atmospheres.
- The sealed assembly also excludes dust, fungus and sand from the measurement element.

144-202-000-206 manufacturer source record

Vibro-Meter CA202 piezoelectric accelerometer data sheet, document DS 262-020, version 10.

Source used for verification

Vibro-Meter CA202 piezoelectric accelerometer data sheet, document DS 262-020, version 10.

Manufacturer document location

<https://catalogue.meggittsensing.com/wp-content/uploads/2020/09/CA202-piezoelectric-accelerometer-data-sheet-English-.pdf>

Editorial scope

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