

vibro-meter
certified by

CA 962

Piezoelectric Accelerometer Type CA 962

CHARACTERISTICS

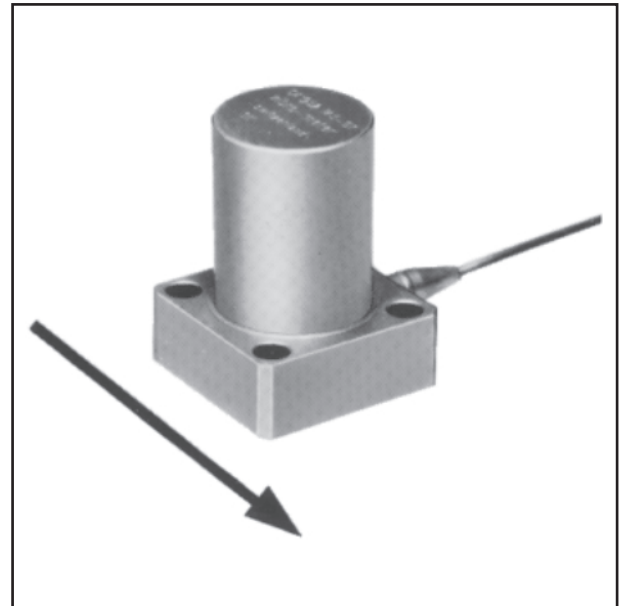
- Extreme temperature capability -196°C to +650°C
- Will meet ANSI/ASME OM 5
- Proven reliability
- Will meet NRC guide 1.20, IEEE 323-1974

FEATURES

- Internal case insulation
- VC2 type crystal element
- Frequency response:
0.5 Hz to 400 Hz
- Sensitivity
250 pC/g ±5%

WEIGHT

Accelerometer : 450 g
Integral cable : 40 g/m



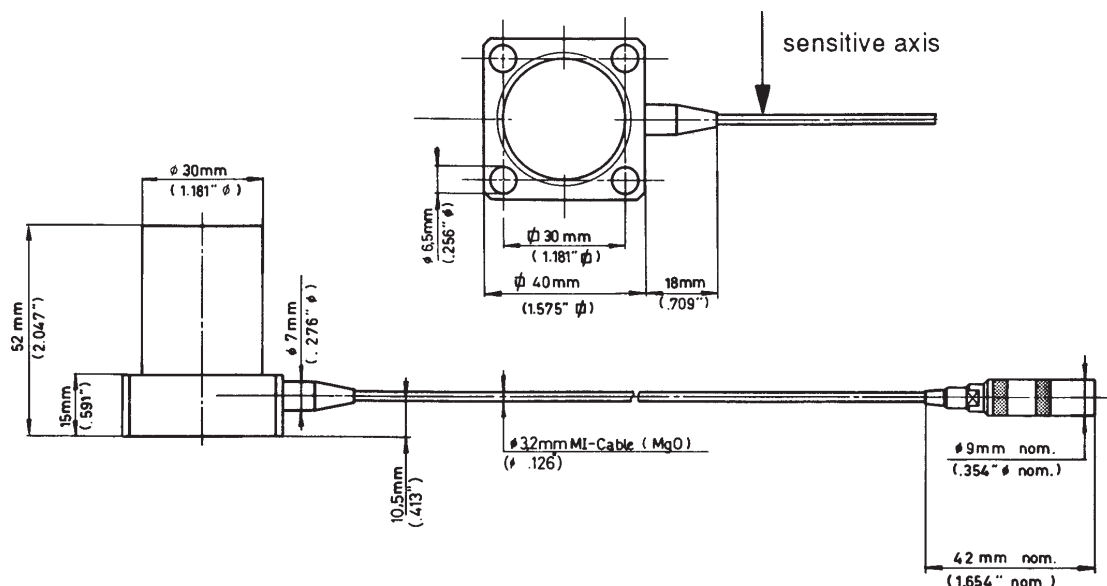
DESCRIPTION

The use of VC2 type single crystal material in the CA 962 bendermode accelerometer provides an extremely stable instrument for low frequency applications.

The transducer is designed for long-term monitoring or development testing.

It is fitted with an integral mineral insulated cable (twin conductors) which is terminated with a Lemo or a high-temperature connector from VIBRO-METER.

MECHANICAL DIAGRAM :



SPECIFICATIONS

CA 962

Input power requirements :

None

Signal transmission :

2 pole system insulated from casing, charge output

Signal processing :

Charge converter

OPERATING (at 23°C ±5°C)

Sensitivity (at 120 Hz):

250 pC/g ±5%

Dynamic measuring range (random) :

0.00005 g to 20 g peak

Overload capacity (spikes) :

Up to 200 g peak

Linearity :

±1% over dynamic measuring range

Transverse sensitivity :

<5%

Resonant frequency (mounted) :

>1.3 kHz nominal

Frequency response

- 0.5 to 250 Hz : ±5% (lower cutoff frequency is determined by the electronics used)
- 250 to 400 Hz : <10%

Internal insulation resistance :

Min. 10⁹ Ω

Capacitance

: 240 pF nominal pole/pole
20 pF nominal pole/ground
(asymmetry 1 pF max.)

- Integral cable

: 200 pF/m nominal pole/pole
300 pF/m nominal pole/ground

ENVIRONMENTAL

Temperature range :

-196°C to +600°C

Shock acceleration :

<200 g peak (half sine, 1ms) along sensitive axis

Pressure :

250 bar max.

Corrosion, humidity :

Inconel 600, hermetically welded

Radiations :

- Gamma flux : 10¹¹ erg/g no effect
- Neutron flux : 10¹⁹ n/cm² no effect

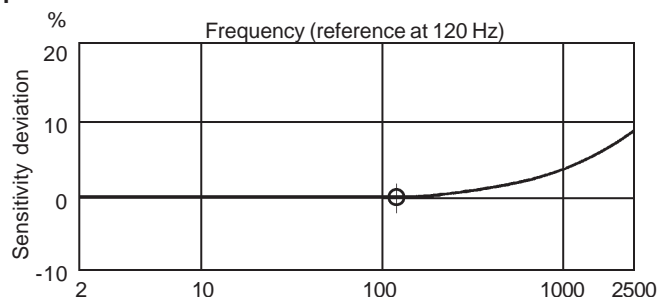
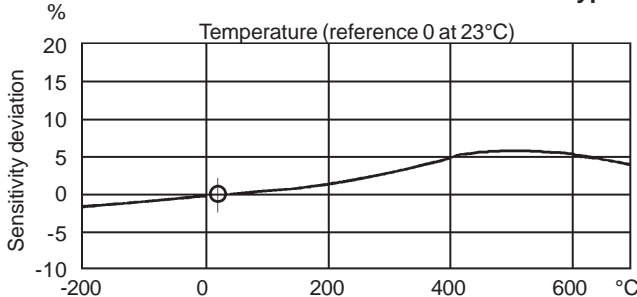
Mounting :

4 x M6 Allen screws, fastening torque 15 Nm

CALIBRATION :

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

Typical Responses



Accessories :

- Connectors
- Cables
- Electronics

Ordering Information :

To order please specify

- Description / Ordering No : CA 962 / 144-962-000-0 1 Cable Ø 3.2 mm MgO insulation, VM Lemo connector

- 1 Cable length defined on order
- 2 Cable length 12.5 m
- 3 Cable length 25 m



Due to the continual development of products, Vibro-Meter reserves the right to modify these specifications without forewarning.



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Vibro-Meter is a member of the
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