

A/122/V Piezo-tronic voltage source Accelerometer

10, 31.6, 100mV/g,

16gm

Std +125 °C (HT 185°C)



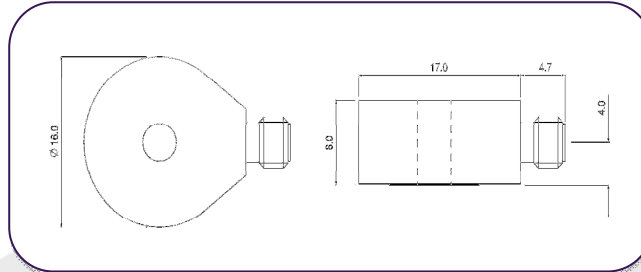
General purpose Piezo-tronic (QVC) accelerometer, identical in sensitivity range to A/120/V, but with annular through whole fixing allowing full 360 degree connector orientation, reduced weight and height.

Konic mechanically preloaded sensing element, thick film hybrid QVC, welded case seal maximizes measurement integrity and reliability.

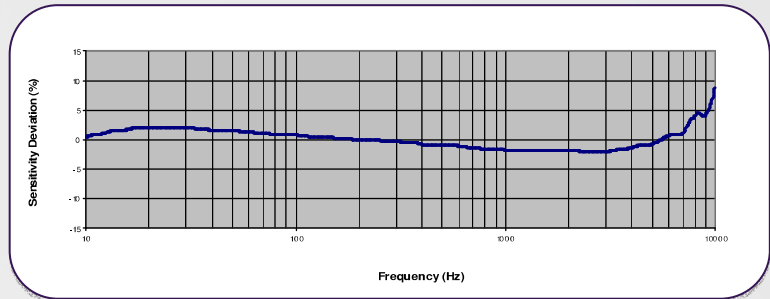
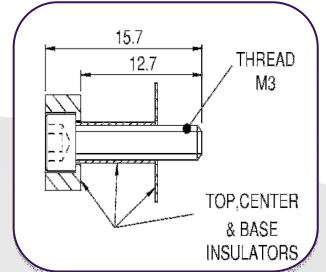
A/122/V will interface directly to spectrum analyzers having minimum 15V, 2mA transducer outlet, bearing in mind that the minimal supply may constrain high frequency capability, due to drive limitations, and dynamic range at elevated temperature, due to bias point drift.

Note that low level measurements are subject to signal/ noise constraints but may be realizable if band width is restricted.

A/122/V



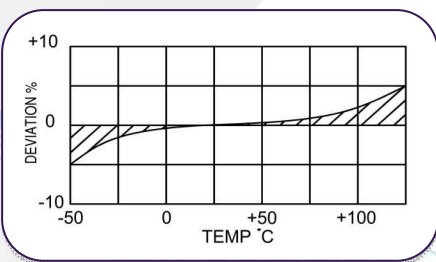
Mounting stud



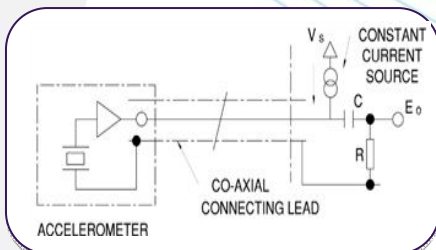
Typical Frequency Response

Note:

Voltage sensitivities shown are standard. We offer a wide range of sensitivities on request, and recommend that applications are evaluated to determine the requisite sensitivity.



Temperature Response



| Conversion Mode | KONIC / 2 WIRE QVC | | |
|--|---|----------|-----------|
| Voltage Sensitivity | 1 100 | 2 316 | 3 1000 |
| Resonant frequency kHz | ≈9 | | |
| Cross Axis error % max | 5 | | |
| Temperature Range °C | -50/+185 | | |
| Voltage sensitivity deviation re 20 °C | -5% @ 50 +5% @+125°C +/- 10% @ +185 | | |
| Supply voltage V | 15/35 | | |
| Supply voltage mA | 2/15 | | |
| Bias voltage v | 8/10 | | |
| Settling time to 90% final val. secs | <1 | | |
| Max continuous accn. G sine | 1000 | | |
| Noise level, equiv. mg | 2 | | |
| Frequency Response | 1Hz-9KHz | | |
| L.F corner frequency, Hz | 0.1 | 0.35 | 1 |
| Case material | st/steel, 303 S31 | | |
| Mounting | Through hole, 3.5mm dia.S1/22 | | |
| Weight gm | 16 | | |
| Case seal | Welded | | |

CMV Steck GmbH

Rheinstraße 92

Tel: + 49 (0) 7275 988 684 - 0

www.CMV-Steck.de

D-76870 Kandel

Fax: + 49 (0) 7275 988 684 - 9

e-mail: info@CMV-Steck.de

