

Piezo-tronic voltage source accelerometer

A/122/V



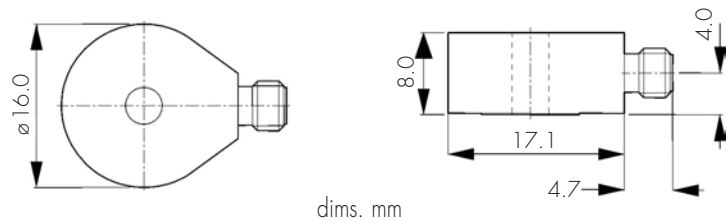
standard outputs 10 ; 31.6 ; 100mV/g • 12gm wt.
125° C max. temp.

General purpose piezo-tronic (QVC) accelerometer, identical in sensitivity range to A/120/V, but annular hole fixing allowing full 360° connector orientation, reduced weight and height.

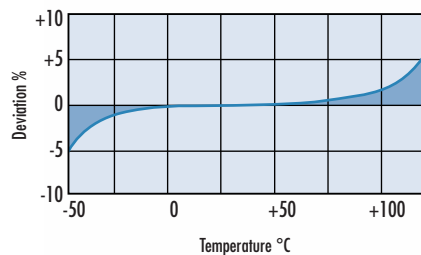
KONIC mechanically preloaded sensing element, thick film hybrid QVC, welded case seal maximises measurement integrity and reliability. A/122/V will interface directly to spectrum analysers having minimum 15V, 2mA transducer outlet, bearing in mind that the minimal supply constrains high frequency capability, due to drive limitations, and dynamic range at elevated temperature, due to bias point drift.

In addition our VV/04 or V4/04 interface module provide QVC current source supply, transducer fault detection, normalised signal scaling up to maximum sensitivity 3V/ milli g. (A/122/V option 3, VV/04 normalising dial/multiplier set to 1mV/g, range switch set to 0.0316g/volt). Note that low level measurements are subject to signal noise constraints but may realizable if bandwidth is restricted.

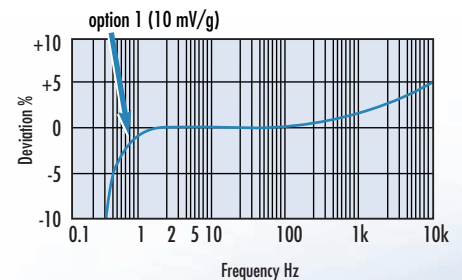
A/122/V



TEMPERATURE RESPONSE



FREQUENCY RESPONSE



CONVERSION MODE

KONIC/2 WIRE QVC

sensitivity option	KONIC/2 WIRE QVC		
	1	2	3
Voltage sensitivity ±5% @ 20°C mV/g	10	31.6	100
Resonant frequency kHz	20		
Cross axis error % max	5		
Temperature range °C	-50 / +125		
Voltage sens. deviation re 20°C	-5% @ -50°C	+5% @ +125°C	
Pyro-electric output, g/°C	0.2		
Pyro-electric corner freq. Hz	0.002		
Base strain sens. g/μ strain	< 0.01		
Max continuous accn. g sine	1000		
Supply voltage V	15/35		
Supply current mA	2/15		
Bias voltage V (20°C)	8.5/9.5		
Settling time to 90% final val. secs.	5	5	5
Noise level, equiv. mg	3	2	1
L.F. corner frequency, Hz	0.2	0.7	2
Saturation limit, equiv. g	450/500	140/155	45/50
Output resistance, ohms (500Hz)	30	50	100
Supply ripple reject @ 50Hz, dB	60		
Case material	s/steel 303 S31		
Mounting	through hole, 3.5mm dia.		
Weight gm	12		
Connector	Microdot skt. 10/32 UNF thd.		
Case seal	welded		

options

- > non standard sensitivities within range 10/100mV/g ;
- > wideband temperature calibration -50/+125° C.