



A/120/V/ VT/ VTC Piezo-Tronic Voltage Accelerometer

Std O/P 10, 31.6, 100mV/g 12.5gm Std temp +125°C (HT 185°C)

General purpose Konic vibration transducers c/w integral two wire charge/voltage converter (QVC) - QVC's are energized from a current source, generate low impedance, noise immune voltage proportional input charge, hence acceleration, and need minimal interfacing. Figure 1 shows basic connection, signal extraction. This type of QVC interface is available in several commercial vibration spectrum analyzers as well as in our own VV/04, V3/04 and V4/04 signal conditioners, which provide in addition normalizing, scaling, and fault detection features.

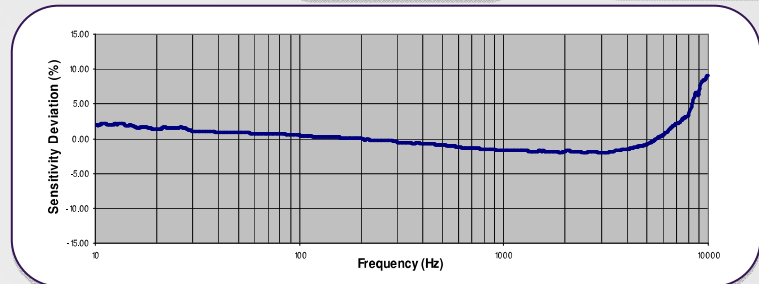
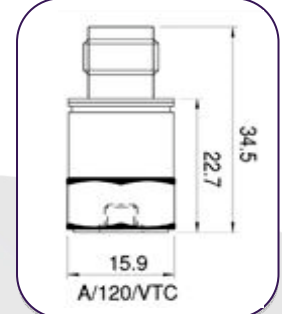
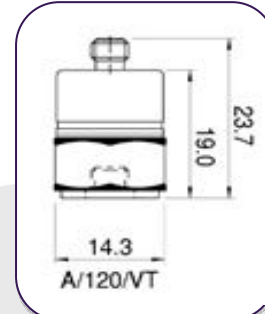
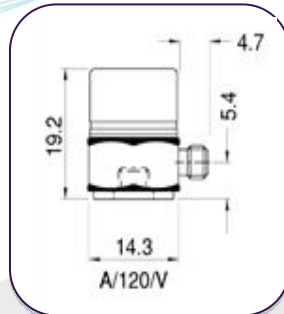
Associated with QVC is a 5V peak out limit. This imposes an overriding, sensitivity dependent peak acceleration constraint on the A/120/V of 50/500g, and above which the QVC saturates.

Non-Magnetic version available, A/120/VN VTN.

High temperature version is also available up to +185°C.

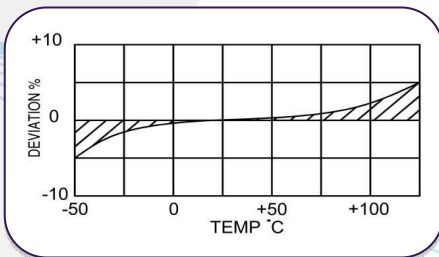
Note:

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.

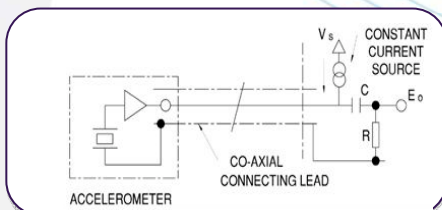


Typical Frequency Response

Conversion Mode	KONIC / 2 WIRE QVC		
Voltage Sensitivity	1	2	3
	10	31.6	100
Resonant frequency kHz	≈28		
Cross Axis error % max	5		
Temperature Range °C	-50/+185		
Voltage sensitivity deviation re 20 °C	+/-5% @ -50 +/-5% @ +125 +/- 10% @ +185		
Supply voltage V	15/35		
Supply voltage mA	2/15		
Bias voltage v	8/10		
Settling time to 90% final val. secs	<2		
Max continuous accn. g sine	1000		
Saturation Limit, equiv .g	450/ 500	140/ 155	45/ 50
Noise level, equiv. mg	5	3	3
Frequency Response	1Hz - 8KHz		
L.F corner frequency, Hz	0.1	0.15	0.5
Case material	Titanium Grade 2, st/steel 303S31 (VTC)		
Mounting	Base tapped hole, 10-32 UNF x 4mm deep		
Weight gm	12.5, 29 (VTC)		
Case seal	Welded hermetic connector		



Temperature Response



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