



SERIES 660

LOW COST, EMBEDDABLE ACCELEROMETERS

- Choice of charge mode, ICP® and 3-wire low power varieties
- Mountable via adhesive or soldering with choice of integral cable or solder pin connections
- Variety of sensitivities to accommodate a wide variety of applications

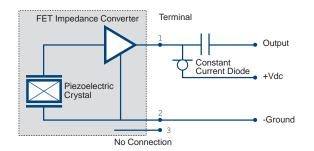


IDEAL FOR CONTINUOUS VIBRATION MONITORING IN HIGH-VOLUME AND COMMERCIAL OEM APPLICATIONS

Embeddable accelerometers offer an affordable solution for vibration and shock measurements in high-volume and commercial OEM applications. The units are particularly well suited for shock and impact detection of packages or components, as well as bearing and gear mesh vibration measurements in predictive maintenance and condition monitoring requirements. The compact designs may be imbedded into machinery at the OEM level to provide value-added monitoring protection.

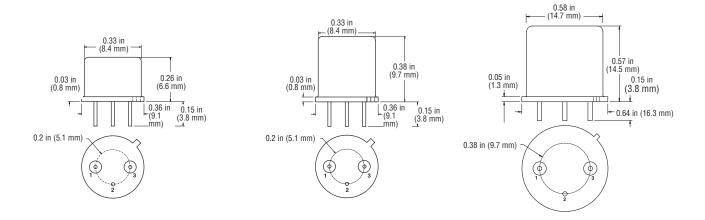
The units employ field-proven, solid-state, piezoelectric sensing elements for durability and broadband performance. Choose from either charge mode types, which achieve high operating temperatures or voltage mode ICP® types, with built-in signal conditioning microelectronics, for simplified operation and connectivity to data acquisition and vibration monitoring instrumentation.

2-Wire ICP® Configuration

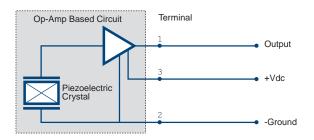


BASE MODEL						
66	Pellet A	et Accelerometer				
	Sensor	Input				
	102A	Low Profile T0-5, 10 mV/g Sensitivity, 500 g Measurement Range				
	122A	Low Profile TO-5, 50 mV/g Sensitivity, 100 g Measurement Range				
	162A	Low Profile TO-5, 1 mV/g Sensitivity, 5000 g Measurement Range				
	212A	TO-5, 100 mV/g Sensitivity, 50 g Measurement Range				
	312A	TO-8, 100 mV/g Sensitivity, 50 g Measurement Range				
	322A	TO-8, 500 mV/g Sensitivity, 10 g Measurement Range				
	332A	TO-8, 1000 mV/g Sensitivity, 5 g Measurement Range				
		Output				
		PZ	Positive output along Z-axis			
		NZ	Negative output along Z-axis			
			Mounting			
			1 Header Pins			
			2 Integral 1ft Cable			

SPECIFICATIONS					
Package Size	Low Profile TO-5	T0-5	TO-8		
Performance					
Sensitivity	See "Base Model" Table				
Measurement Range	See "Base Model" Table				
Frequency Range	0.5 to 10	0,000 Hz	0.5 to 5000 Hz		
Resonant Frequency	>25	kHz	>16 kHz		
Broadband Resolution	1800 μg rms	350 µg rms	35 μg rms		
Non-Linearity		≤1%			
Transverse Sensitivity		≤7%			
Environmental					
Overload Limit (Shock)	5000 g pk 49050 m/s² pk				
Temperature Range	65 to +185 °F -54 to +85 °C				
Electrical					
Settling Time	≤2	≤10 sec			
Discharge Time Constant	≥0.3	≥1 sec			
Excitation Voltage	18 to 28 VDC				
Constant Current Excitation					
Output Impedance	<100 ohm	<150 ohm	<550 ohm		
Output Bias Voltage	8 to 12 VDC				
Physical					
Sensing Element	Ceramic				
Sensing Geometry	Shear				
Housing Material	Stainless Steel				
Sealing Hermetic					
Mounting	Adhesive or Solder				
Weight	0.08 oz 2.2 g	0.1 oz 3.0 g	0.88 oz 25 g		

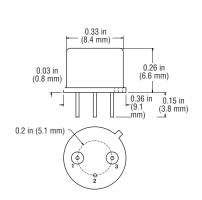


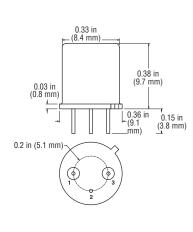
3-Wire Low Power Configuration

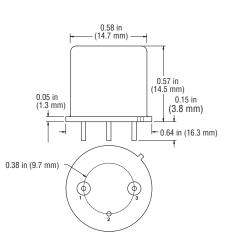


BASE MODEL						
66	Pellet A	ellet Accelerometer				
	Sensor	Input				
	103P	Low Profile T0-5, 10 mV/g Sensitivity, 200 g Measurement Range				
	203P	TO-5, 50 mV/g Sensitivity, 20 g Measurement Range				
	213P	TO-5, 100 mV/g Sensitivity, 20 g Measurement Range				
	313P	TO-8, 100 mV/g Sensitivity, 20 g Measurement Range				
	323P	TO-8, 500 mV/g Sensitivity, 4 g Measurement Range				
	333P	TO-8, 1000 mV/g Sensitivity, 2 g Measurement Range				
		Output				
		PZ	Positive output along Z-axis			
		NZ	Negative output along Z-axis			
			Mounting			
			1 Header Pins			
			2 Integral 1ft Cable			

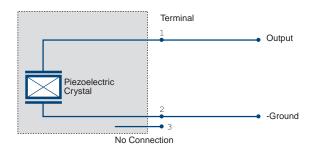
SPECIFICATIONS						
Package Size	Low Profile TO-5	T0-5	TO-8			
Performance						
Sensitivity	See "Base Model" Table					
Management Dance	(0.5 × Excitation Voltage) - 0.5 V					
Measurement Range	Sensitivity (V/g)					
Frequency Range	0.5 to 1	0000 Hz	0.5 to 5000 Hz			
Resonant Frequency	>25	kHz	>16 kHz			
Broadband Resolution	4900 µg rms	4900 μg rms 1700 μg rms				
Non-Linearity ≤1%						
Transverse Sensitivity		≤7%				
Environmental						
Overload Limit (Shock)	5000 g pk 49050 m/s² pk					
Temperature Range	65 to +185 °F -54 to +85 °C					
Electrical	'					
Settling Time	≤2.5	≤2 sec				
Discharge Time Constant	≥0.3	≥0.4 sec				
Excitation Voltage	3 to 12 VDC					
Constant Current Excitation	0.75 mA					
Output Impedance	<100 ohm					
Output Bias Voltage	Output Bias Voltage 0.5 x Excitation Voltage					
Physical						
Housing Material	Housing Material Stainless Steel					
Sealing	Hermetic					
Mounting	Adhesive or Solder					
Weight	0.08 oz 2.2 g	0.1 oz 3.0 g	0.88 oz 25 g			





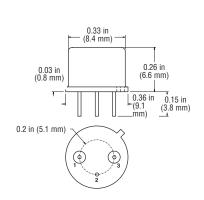


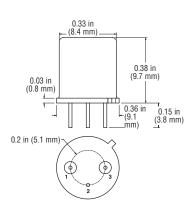
2-Wire Charge Mode

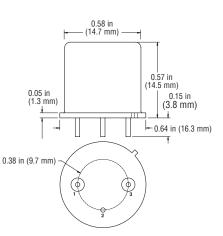


BASE MODEL					
66	Pellet A	ccelerometer			
	Sensor	Input			
	192C	Low Profile TO-5, 5 pC/g Sensitivity			
	292C	TO-5, 11 pC/g Sensitivity			
	392C	TO-8, 1	TO-8, 100 pC/g Sensitivity		
		Output	Output		
		PZ	Positive output along Z-axis		
		NZ	Negative output along Z-axis		
			Mounting		
			1	Header Pins	
			2	Integral 1ft Cable	

SPECIFICATIONS						
Package Size	Low Profile TO-5	T0-5	TO-8			
Performance						
Sensitivity	Sensitivity See "Base Model" Table					
Frequency Range	10	kHz	5 kHz			
Resonant Frequency	>25	kHz	>16 kHz			
Non-Linearity	Non-Linearity ≤1%					
Transverse Sensitivity	Transverse Sensitivity ≤7%					
Environmental						
Overload Limit (Shock)	5000 g pk 49050 m/s² pk					
Temperature Range	65 to +185 °F -54 to +85 °C		65 to +250 °F -54 to +121 °C			
Electrical						
Capacitance	350 pF		2700 pF			
Physical						
Housing Material	Stainless Steel					
Sealing	Hermetic					
Mounting	Adhesive or Solder					
Weight	0.08 oz 2.2 g	0.1 oz 3.0 g	0.88 oz 25 g			









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