

High temperature PE accelerometer

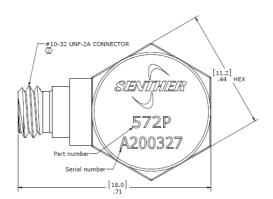


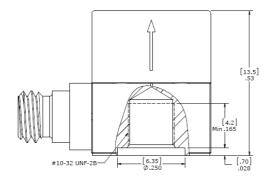
Features

- Side connector/cable
- •Adhesive or stud mounting
- Hermetic seal
- •Annular shear mode
- Wide frequency response

Application

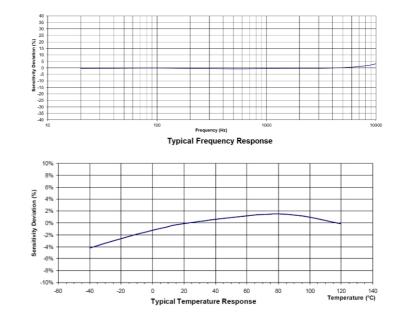
- •Engine research
- Shock testing
- Modal analysis
- Aircraft testing
- •Auto exhaust system





Description

The model 572P is a light weight piezoelectric accelerometer designed specifically for measuring high temperature vibration on structures and test purpose. The unit is hermetically sealed and ideal for use in extreme environments. This sensor is the industry standard for vibration/shock accelerometers. The model 572P features a 10-32 threaded mounting hole. The accelerometer is a self-generating device that requires no external power source for operation. Model 572P operating in annular shear mode. These specially designed crystals exhibit low base strain sensitivity, high resonance frequency, and excellent output stability over time. Signal ground is connected to the outer case of the unit. The accelerometer features a 10-32 side connector and requires a low-noise coaxial cable for error-free operation. Senther's model 11P-3 is a 10-32 to BNC breakout low noise cable for the sensor.





Specification

All values are typical at +24°C $\,(+75^{o}F)\,$ and 100Hz unless otherwise stated

Parameters	Value	Units
Sensitivity Typical	6	pC/g
Sensitivity Minimum	5	pC/g
Frequency Range ±5%	1-7000	Hz
Frequency Range ±1dB	0.8-10000	Hz
Frequency Range ±3dB	0.5-15000	Hz
Resonant Frequency	38	KHz
Linearity	±1/1000g	% FSO
Transverse Sensitivity	<5	%
Dynamic Range	±5000	g
Shock Limit	±10000	g

Parameters	Value	Units	
Internal Resistance(@100Vdc)	>10	GΩ	
Internal Resistance @ +260°C	>10	ΜΩ	
Capacitance (Nominal)	630	pF	
Grounding	Case Grounded		
Insulation Resistance (@100Vdc)	>100	ΜΩ	
Operating Temperature	-73 to +260 °C		
Humidity	Hermetically Sealed		
Material(Casing)	Stainless Steel		
Sensing Element	Piezo Ceramic		
Weight	8.6 Grams		
Mounting Torgue	6(0.7) Ib-in(Nm)		

Accessories

Calibration certificate included.

Part Number	Description	Availability	
PM0231	Mounting stud 10-32 to 10-32 thread	One stud included	
PM0356	Mounting stud 10-32 to M5 thread	One stud Included	
MB0012	Magnet mounting adapter	Optional	
PM0276	Adhesive mounting adapter	Optional	
11P-3	3 meter low noise mating cable with 10-32(male) to BNC(male) connector	Optional	
10P-3	3 meter low noise mating cable with 10-32(male) to 10-32(male) connector	Optional	
IN-06	3 channels charge converter	Optional	
IN-07	1 channel inline charge converter	Optional	
IN-3062	8 channels data acquisition system	Optional	



Measurement configuration



Ordering information

572	Р	-	Α
Model	Output signal	-	Mounting stud
572	P=Charge output	-	A= 10-32 to 10-32
			B= 10-32 to M5
			C*=Special



