

# Piezoelectric Accelerometer



IPA Accelerometer utilizes the spring-mass system for generating a force proportional to the amplitude of the input acceleration to the base of the system. Force is applied to the piezoelectric (PE) element made of leadzirconate-titan ate (PZT) material that produces a charge output proportional to the force. The PE material is self-generating and does not require an external power source.

Our Accelerometers are single ended compression (SEC) design, which provides high sensitivity and high resonant frequency. A special type of base construction is used to minimize effects of base strain, which makes the device useful for reliable low signal level measurements. The Accelerometer construction is entirely of stainless steel. It carries standard 10-32 UNF miniature connector for output connection and is suitable for application in low-level vibration measurements at frequencies down to 0.1 Hz in laboratory and industrial environments. These accelerometers are best suited for vibration analysis in harsh industrial environments.



Model No.	PG 109 MO	PG 114 MO	PG 120 MO
Sensing Material	PZT	PZT	PZT
Charge Sensitivity (pC/g)	10-20	45-55	35-45
Frequency Range (6%) Hz	1 to 10000	1 to 6000	2to 6000
Linearity	3%	3%	3%
Max. Operating Temp °C	125	125	200
Transverse Sensitivity (Max)	5%	5%	5%
Case Material	SS	SS	SS
Output Connector	10-32 UNF	10-32 UNF	10-32 UNF
Weight (gm)	15 ± 2	41 ± 2	41 ± 2
Mounting Thread	M5	M5	M5
Height (mm)	19 ± 0.5	26 ± 0.5	26 ± 0.5
Protection	IP 65	IP 65	IP 65
<b>Option</b>	PG 109 FMO/ PG 114 FMO/ PG 120 FMO with Triangular Mounting Flange		
<b>Accessories</b>			
Standard	1 Mtr Low Noise Cable & 1 Set Mounting Studs		
Optional	Magnetic Base		