

SINGLE AXIS ACCELEROMETER

ST703-1P Piezoelectric Accelerometer

The ST703-1P Series single axis accelerometer is a high resolution, low power consuming, broadband piezoceramic sensor that enables cost effective machinery monitoring. Faithfully monitor bearing and gear conditions with the same proven technology used for vibration analysis in military and industrial machinery health monitoring programs. The benefits realized are increased end-user uptime with a reduction in maintenance costs and safety risks.

KEY FEATURES

- ◆ Wide range of measuring capabilities
- ◆ High resolution
- ◆ Low power consuming
- ◆ Compact, stainless steel design
- ◆ Stud or magnetic mounting
- ◆ Hermetically sealed components

SPECIFICATIONS				
Performance	Units	/3	/2	/1
Sensitivity ($\pm 20\%$)	mV/g	1000	500	100
Measuring Range	\pm g pk	5	10	50
Frequency Response (-3dB)	Hz	0 to 4000		
Environmental				
Shock Limit	\pm g pk	6,000		
Temperature range	$^{\circ}$ C	-48 to +85		
Electrical				
Supply Voltage	V	24		
Voltage Output	\pm V	5		
Mechanical				
Size (diameter x height)	inch	1.375 x 2.125		
Sensing Element Material	Type	PZT		
Housing Material	Type	Stainless Steel, encapsulated		
Electrical Connector	Type	6 Pin, M12 thread		
Mounting thread	Type	1/4 x 20 UNC		
Optional magnetic base	ST705	Flat or curved surface, 55 lb force		



BENEFITS

- ◆ Very low noise – ideal condition monitoring
- ◆ Cost effective machinery monitoring
- ◆ Proven technology
- ◆ Rugged design to withstand harsh conditions

OPTIONAL ACCESSORIES

- ◆ ST705-1 Magnetic base
- ◆ Cables (custom lengths)

