

TRIAxIAL ACCELEROMETER

ST703-3P Piezoelectric Accelerometer

The ST703-3P Series Triaxial accelerometer sensor 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

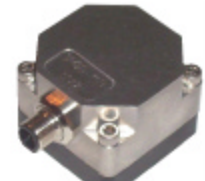
SPECIFICATIONS

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	6000		
Temperature range	$^{\circ}$ C	-48 to +85		
Electrical				
Supply Voltage	V	24		
Voltage Output	\pm V	5		
Mechanical				
Size (L x W x H)	inch	2 x 2 x 1.75		
Sensing Element Material	Type	PZT		
Housing Material	Type	Stainless Steel, encapsulated		
Electrical Connector	Type	4 Pin, M12 thread		
Mounting thread	Type	1/4 x 20 UNC (x4)		
Optional magnetic base	ST705	Flat surface, 85 lb force		

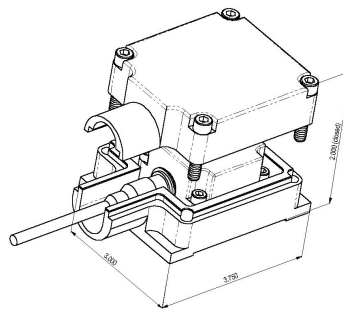
ST703-3P Triaxial accelerometer



Stud mount style



Magnetic mount style



ST706 Protective Enclosure Protects sensor from extreme conditions



ST705-3F Magnetic base

BENEFITS

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

OPTIONAL ACCESSORIES

- ◆ ST706 Protective enclosure
- ◆ ST705-3F Magnetic base
- ◆ Cables (cus tom lengths)

