HS-100 Accelerometer

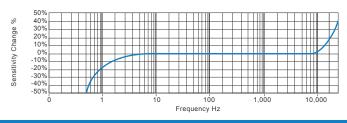
AC acceleration output via PUR Cable



Technical Performance		Mechanical	
Mounted Base Resonance	see 'How To Order' table (nominal)	Case Material	Stainless Steel
Sensitivity	see: 'How To Order' table ±10%	Sensing Element/Construction	PZT/Compression
	Nominal 80Hz at 22°C	Mounting Torque	8Nm
Frequency Response	2Hz (120cpm) to 10kHz (600kcpm) ± 5%	Weight	106gms (nominal) body only
	1.5Hz (90cpm) to 12kHz (720kcpm) ± 10%	Maximum Cable Length	1000 metres
	0.8Hz (48cpm) to 15kHz (900kcpm) ± 3dB	Standard Cable Length	5 metres
Isolation	Base isolated	Screened Cable	PUR - length to be specified with order
Range	see: 'How To Order' table	Mounting Threads	see: 'How To Order' table
Transverse Sensitivity	Less than 5%	Submersible Depth	100 metres max (10 bar)

Electrical	
Excitation Voltage:	18-30Volts DC
Electrical Noise	0.1mg max
Current Range	0.5mA to 8mA
Bias Voltage	10 - 12 Volts DC
Settling Time	2 seconds
Output Impedance	200 Ohms max.
Case Isolation	>10 ⁸ Ohms at 500 Volts

Typical Frequency Response (at 100mV/g)



Applications

Environmental

Sealing Maximum Shock

EMC

Operating Temperature Range

Fans, Motors, Pumps, Compressors, Centrifuges, Conveyors, Air Handlers, Gearboxes, Rolls, Dryers, Presses, Cooling, VAC, Spindles, Machine Tooling, Process Equipment

Vibration sensor should be firmly fixed to a flat surface (spot face surface may be needed to be produced and cable anchored to sensor body.)



CE

UK CA

-30 to 90°C

EN61326-1:2013

IP68

5000g

How To Order

	oduct Series 0 - Industrial Vibration S	t Series dustrial Vibration Sensor							Cable Length 2XX - length specified in metres		
H S 1 0	0 X	X	X	X	X	X	X	X	X	X	X
Extra Options (if required) F - Filtered I - Intrinsically Safe L - 316L Stainless Steel RT - Temperature Output PT100 T - Temperature Output Y - 5% tolerance on sensitivity	250 - 250mV/g	Range ±800g ±250g ±160g ±80g ±32g ±16g	Resona 34kHz 33kHz 32kHz 30kHz 28kHz 26kHz	nt Frequei (2,040kc (1,980kc (1,920kc (1,800kc (1,680kc (1,560kc	pm) pm) pm) pm) pm)	01 - PL 02 - Br 07 - Si	aided licon ame Retar Pin MS		01 - 1/4 02 - 1/4 05 - Qu 06 - Mi 08 - Mi	ing Threa 28" UNF 28" UNF uick Fit Fe 3 x 1mm M 3 x 1.25m 10 x 1.5m	Female Male emale Male m Male



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We reserve the right to alter the specification of this product without prior notice TS083.8