HS-100ST Accelerometer

AC acceleration and temperature output via Silicon Cable

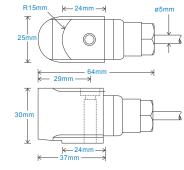
Key Features

- Temperature output
- · Side entry for easy access
- Waterproof

Industries

Building services, Pulp and Paper, Mining, Metals, Utilities, Automotive, Water, Pharmaceutical







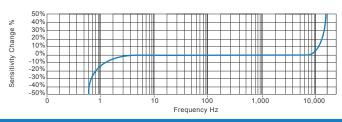
Connection Details



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%	Mounting Bolt Provided	see: 'How To Order' table x 30mm long
	1.5Hz (90cpm) to 12kHz (720kcpm) ± 10%	Weight	185gms (nominal)
	0.8Hz (48cpm) to 15kHz (900kcpm) ± 3dB	Maximum Cable Length	1000 metres
Isolation	Base isolated	Standard Cable Length	5 metres
Range	see: 'How To Order' table	Screened Cable	Silicon - length to be specified with order
Temperature Output	10 mV/°C standard 100°C - Option 140°C	Mounting Threads	see: 'How To Order' table
Transverse Sensitivity	Less than 5%	Submersible Depth	100 metres max. (10 bar)

Electrical		Environmental					
Electrical Noise	0.1mg max	Operating Temperature Range	-50 to 140°C				
Current Range	0.5mA to 8mA	Sealing	IP68				
Bias Voltage	10 - 12 Volts DC	Maximum Shock	5000g				
Settling Time	2 seconds	EMC	EN61326-1:2013				
Output Impedance	200 Ohms max.						
Case Isolation	>10 ⁸ Ohms at 500 Volts						

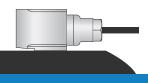
Typical Frequency Response (at 100mV/g)



Applications

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.)



How To Order

	Product Series 100 - Industrial Vibration Sensor										f integral ecified in r	
H S 1	0 0	S T	X	X	X	X	X	X	X	X	X	X
Extra Options (if required) F - Filtered L - 316L Stainless Steel S - 90° Side Exit T - Temperature Output Y - 5% tolerance on sensitiv	030 - 050 - 100 - 250 -	ivity Rang 10mV/g ±800g 30mV/g ±250g 50mV/g ±160g 100mV/g ±800g 250mV/g ±32g 500mV/g ±32g 500mV/g ±16g	27kHz 25kHz 23kHz 23kHz 21kHz 19kHz	ant Freque (1,620kc (1,500kc (1,380kc (1,260kc (1,140kc (1,020kc	pm) pm) pm) pm) pm) pm)	01 - P 03 - B 07 - Si 15 - Fl	raided licon ame Reta Pin MS		02 - ¼ 06 - M	t ing Threa -28" UNF 6 x 1mm f 8 x 1.25m	Male Male	



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We reserve the right to alter the specification of this product without prior notice TS193.6