

HS-100ST Accelerometer

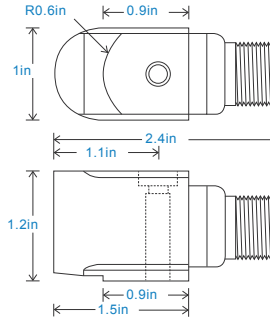
AC acceleration and temperature output via 3 Pin MS Connector

Key Features

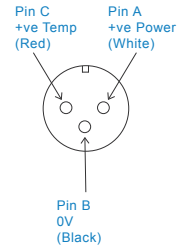
- Temperature output
- Side entry for easy access
- For use with data collector

Industries

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



Connection Details



Technical Performance

Mounted Base Resonance	see 'How To Order' table (nominal)
Sensitivity	see: 'How To Order' table $\pm 10\%$ Nominal 80Hz at 72°F
Frequency Response	120cpm (2Hz) to 600kcpm (10kHz) $\pm 5\%$ 90cpm (1.5Hz) to 720kcpm (12kHz) $\pm 10\%$ 48cpm (0.8Hz) to 900kcpm (15kHz) $\pm 3\text{dB}$
Isolation	Base isolated
Range	see: 'How To Order' table
Temperature Output	10 mV/°C standard 212°F - Option 284°F
Transverse Sensitivity	Less than 5%

Mechanical

Case Material	Stainless Steel
Sensing Element/Construction	PZT/Compression
Mounting Torque	5.9ft. lbs
Mounting Bolt Provided	see: 'How To Order' table x 1.2in long
Weight	6.5 oz. (nominal) body only
Shielded Cable Assembly	see: www.hansfordsensors.com for options
Connector	HS-AA005 - non-booted HS-AA068 or HS-AA069 - booted
Mounting Threads	see: 'How To Order' table

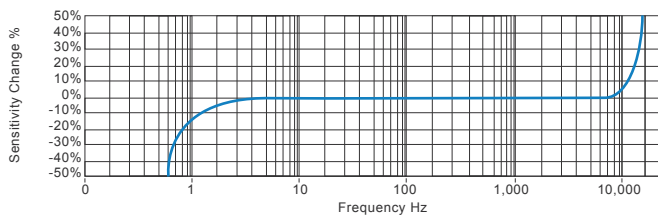
Electrical

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

Environmental

Operating Temperature Range	-67 to 284°F
Sealing	IP68
Maximum Shock	5000g
EMC	EN61326-1:2013

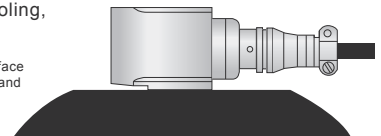
Typical Frequency Response (at 100mV/g)



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 Prefix		Product Series											
HS - Hansford Sensors		100 - Industrial Vibration Sensor											
H	S	1	0	0	S	T	X	X	X	X	X	X	
Extra Options (if required)				Sensitivity		Range		Resonant Frequency		Cable/Connector		Mounting Threads	
F - Filtered				010 - 10mV/g		±800g		1,620kcpm (27kHz)		01 - PUR		02 - ¼-28" UNF Male	
L - 316L Stainless Steel				030 - 30mV/g		±250g		1,500kcpm (25kHz)		03 - Braided		06 - M6 x 1mm Male	
S - 90° Side Exit				050 - 50mV/g		±160g		1,380kcpm (23kHz)		07 - Silicon		08 - M8 x 1.25mm Male	
T - Temperature Output				100 - 100mV/g		±80g		1,260kcpm (21kHz)		15 - Flame Retardant			
Y - 5% tolerance on sensitivity				250 - 250mV/g		±32g		1,140kcpm (19kHz)		52 - 3 Pin MS			
				500 - 500mV/g		±16g		1,020kcpm (17kHz)		54 - M12			



www.hansfordsensors.com
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We reserve the right to alter the specification of this product without prior notice

TS004U.7

