

# HS-100 Accelerometer

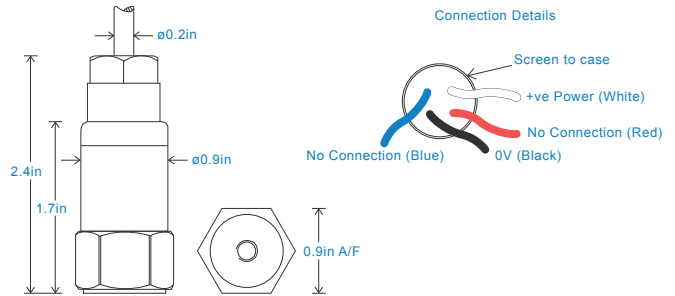
AC acceleration output via PUR Cable

## Key Features

- Most common seller
- For use with data collector
- Customizable features

## Industries

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



## 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) $\pm 3dB$
Isolation	Base isolated
Range	see: 'How To Order' table
Transverse Sensitivity	Less than 5%

## Mechanical

Case Material	Stainless Steel
Sensing Element/Construction	PZT/Compression
Mounting Torque	5.9ft. lbs
Weight	3.7 oz. (nominal) body only
Maximum Cable Length	3,280 ft.
Standard Cable Length	16 ft.
Shielded Cable	PUR - length to be specified with order
Mounting Threads	see: 'How To Order' table
Submersible Depth	328 ft. max (10 bar)

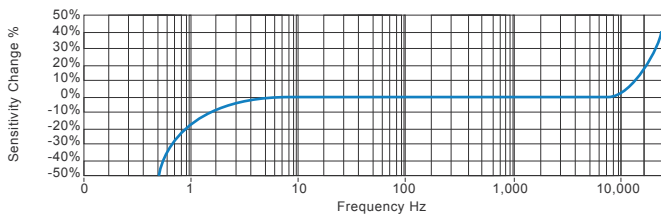
## Electrical

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

## Environmental

Operating Temperature Range	-58 to 284°F
Sealing	IP68
Maximum Shock	5000g
EMC	EN61326-1:2013

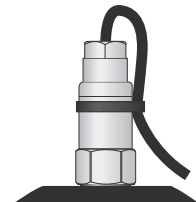
## Typical Frequency Response (at 100mV/g)



## 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	Cable Length												
HS - Hansford Sensors	100 - Industrial Vibration Sensor	UXX - length specified in feet												
<b>H</b>	<b>S</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>Extra Options (if required)</b>		<b>Sensitivity</b>	<b>Range</b>	<b>Resonant Frequency</b>		<b>Cable/Connector</b>				<b>Mounting Threads</b>				
F - Filtered		010 - 10mV/g	$\pm 800g$	2,040kcpm (34kHz)		01 - PUR				01 - 1/4-28" UNF Female				
I - Intrinsically Safe		030 - 30mV/g	$\pm 250g$	1,980kcpm (33kHz)		02 - Braided				02 - 1/4-28" UNF Male				
L - 316L Stainless Steel		050 - 50mV/g	$\pm 160g$	1,920kcpm (32kHz)		07 - Silicon				05 - Quick Fit Female				
RT - Temperature Output PT100		100 - 100mV/g	$\pm 80g$	1,800kcpm (30kHz)		08 - Flame Retardant				06 - M6 x 1mm Male				
T - Temperature Output		250 - 250mV/g	$\pm 32g$	1,680kcpm (28kHz)		50 - 2 Pin MS				08 - M8 x 1.25mm Male				
Y - 5% tolerance on sensitivity		500 - 500mV/g	$\pm 16g$	1,560kcpm (26kHz)		54 - M12				10 - M10 x 1.5mm Male				



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We reserve the right to alter the specification of this product without prior notice  
TS083U.5

