

# HS-100T Accelerometer

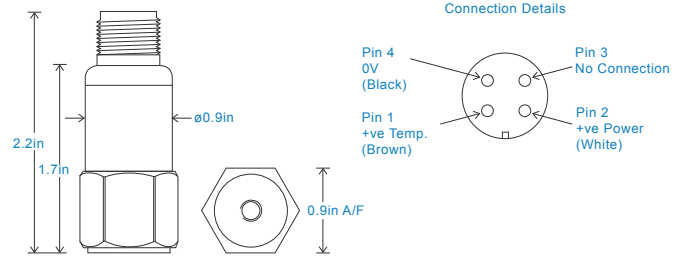
## AC acceleration and temperature output via M12 Connector

### Key Features

- Temperature output
- 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) $\pm 3\text{dB}$
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
Weight	3.7 oz. (nominal) body only
Shielded Cable Assembly	HS-AC010 - straight HS-AC011 - right angle
Mounting Threads	see: 'How To Order' table

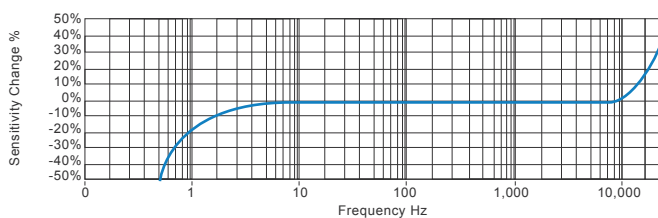
### Electrical

Excitation Voltage	18-30 Volts 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	IP67
Maximum Shock	5000g
EMC	EN61326-1:2013

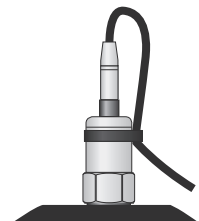
### Typical Frequency Response (at 100mV/g)



### 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	T	X	X	X	X	X
Extra Options (if required)	Sensitivity	Range	Resonant Frequency	Cable/Connector	Mounting Threads							
F - Filtered	010 - 10mV/g	$\pm 800\text{g}$	2,040kcpm (34kHz)	01 - PUR	01 - 1/4-28" UNF Female							
I - Intrinsically Safe	030 - 30mV/g	$\pm 250\text{g}$	1,980kcpm (33kHz)	03 - Braided	02 - 1/4-28" UNF Male							
L - 316L Stainless Steel	050 - 50mV/g	$\pm 160\text{g}$	1,920kcpm (32kHz)	07 - Silicon	05 - Quick Fit Female							
S - 90° Side Exit	100 - 100mV/g	$\pm 80\text{g}$	1,800kcpm (30kHz)	15 - Flame Retardant	06 - M6 x 1mm Male							
T - Temperature Output	250 - 250mV/g	$\pm 32\text{g}$	1,680kcpm (28kHz)	52 - 3 Pin MS	08 - M8 x 1.25mm Male							
Y - 5% tolerance on sensitivity	500 - 500mV/g	$\pm 16\text{g}$	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

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