HS-100T Accelerometer

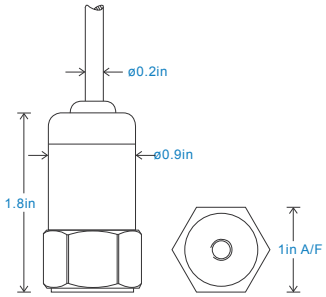
AC acceleration and temperature output via Braided Cable

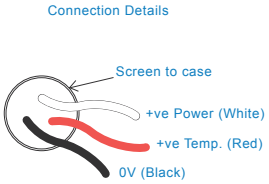
Key Features

- 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 ±10%
	Nominal 80Hz at 72°F
Frequency Response	120cpm (2Hz) to 600kcpm (10kHz) ± 5%
	90cpm (1.5Hz) to 720kcpm (12kHz) ± 10%
	48cpm (0.8Hz) to 900kcpm (15kHz) ± 3dB
Isolation	Base isolated
Range	see: 'How To Order' table
Temperature Output	10 mV/ºC 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	4.4 oz. (nominal)
Maxiumum Cable Length	3,280 ft.
Standard Cable Length	16 ft.
Shielded Cable	Braided - length to be specified with order
Mounting Threads	see: 'How To Order' table

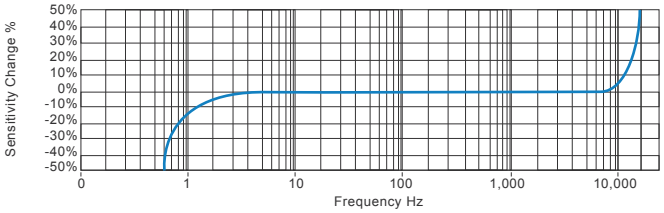
Electrical

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	IP65
Maximum Shock	5000g
EMC	EN61326-1:2013

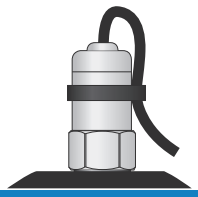
Typical Frequency Response (at 100mV/g)



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
HS - Hansford Sensors

Product Series
100 - Industrial Vibration Sensor

Cable Length (if integral cable)
UXX - length specified in feet

H	S	1	0	0	T	X	X	X	X	X	X	X	X	X	X

Extra Options (if required)

F	- Filtered
I	- Intrinsically Safe
L	- 316L Stainless Steel
S	- 90° Side Exit
T	- Temperature Output
Y	- 5% tolerance on sensitivity

Sensitivity		Range	Resonant Frequency	
010	- 10mV/g	±800g	1,680kcpm	(28kHz)
030	- 30mV/g	±250g	1,560kcpm	(26kHz)
050	- 50mV/g	±160g	1,440kcpm	(24kHz)
100	- 100mV/g	±80g	1,320kcpm	(22kHz)
250	- 250mV/g	±32g	1,200kcpm	(20kHz)
500	- 500mV/g	±16g	1,080kcpm	(18kHz)

Cable/Connector

01	- PUR
03	- Braided
07	- Silicon
15	- Flame Retardant
52	- 3 Pin MS
54	- M12

Mounting Threads

01	- ¼-28" UNF Female
02	- ¼-28" UNF Male
05	- Quick Fit Female
06	- M6 x 1mm Male
08	- M8 x 1.25mm Male
10	- M10 x 1.5mm Male

Hansford Sensors
Excellence in Vibration Monitoring

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