

HS-160 Accelerometer

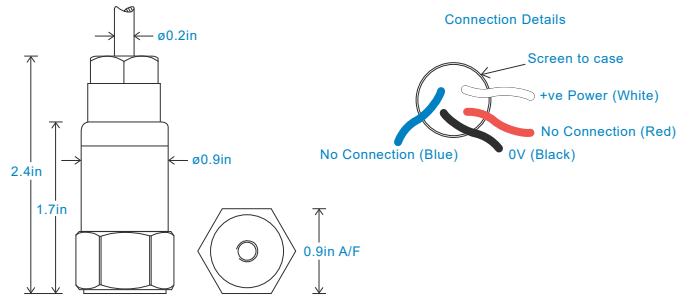
AC velocity output via PUR Cable

Key Features

- For use with data collector
- AC velocity output
- 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	180cpm (3Hz) to 270kcpm (4.5kHz) $\pm 10\%$ 120cpm (2Hz) to 360kcpm (6kHz) ± 3 dB
Isolation	Base isolated
Range	see: 'How To Order' table
Transverse Sensitivity	Less than 5%

Mechanical

Case Material	316L 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)

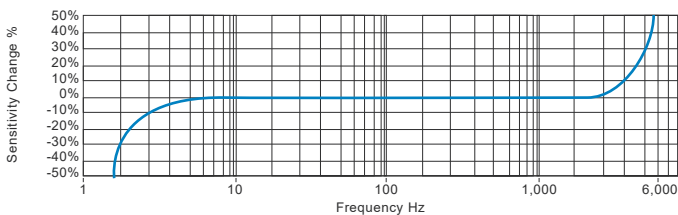
Electrical

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	-22 to 194°F
Sealing	IP68
Maximum Shock	5000g
EMC	EN61326-1:2013

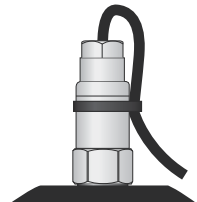
Typical Frequency Response



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 (if integral cable)									
HS - Hansford Sensors		160 - Industrial Vibration Sensor				UXX - length specified in feet									
H	S	1	6	0	X	X	X	X	X	X	X	X	X	X	
Extra Options (if required)					Sensitivity		Range (pk)		Resonant Frequency		Cable/Connector			Mounting Threads	
F - Filtered					004 - 100mV/in/s		40 IPS		1,320kcpm (22kHz)		01 - PUR			01 - ¼-28" UNF Female	
RT - Temperature Output PT100					025 - 625mV/in/s		10 IPS		1,320kcpm (22kHz)		02 - Braided			02 - ¼-28" UNF Male	
S - 90° Side Exit											07 - Silicon			05 - Quick Fit Female	
T - Temperature Output											08 - Flame Retardant			06 - M6 x 1mm Male	
Y - 5% tolerance on sensitivity											50 - 2 Pin MS			08 - M8 x 1.25mm Male	
											54 - M12			10 - M10 x 1.5mm Male	