HS-420T Accelerometer

4-20mA velocity and temperature output via M12 Connector

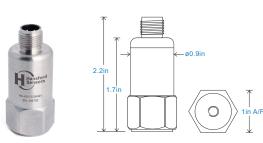
Key Features

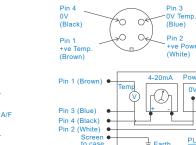
· For use with PLC/DCS systems

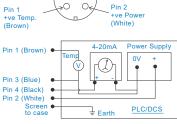
• Temperature output

Industries

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







Connection Details

Technical Performance

Mounted Base Resonan	ce 5kHz min
Velocity Ranges	see: 'How To Order' table ±10%
	Nominal 80Hz at 72°F
Frequency Response	600cpm (10Hz) to 60kcpm (1kHz) ± 5% - ISO10816
Isolation	Base isolated
Range	50g peak
Temperature Output	10mV/°C - 0-1V proportional to 32-212°F (to convert
	this to 4-20mA use the HS-540 module)
Transverse Sensitivity	Less than 5%

Case Material
Sensing Element/Construction
Mounting Torque
Weight
Sheilded Cable Assembly

Stainless Steel PZT/Compression 5.9ft. lbs 3.5 oz. (nominal) body only HS-AC010 - straight HS-AC011 - right angle see: 'How To Order' table

Electrical

Current Output	4-20mA DC proportional to Velocity Range
Supply Voltage	15-30 Volts DC (for 4-20mA)
Settling Time	2 seconds
Output Impedance	Loop Resistance 600 Ohms max. at 24 Volts
Case Isolation	>10 ⁸ Ohms at 500 Volts

Environmental

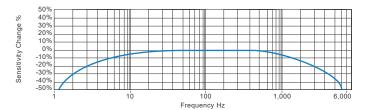
Mounting Threads

Mechanical

Operating Temperature Range Sealing Maximum Shock EMC

-13	to	194°F
		IP67
		5000g
EN6132	6-1	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 Series 120 - Industrial Vibration Sensor			Cable Length (if integral cable) UXX - length specified in feet			
HS4	2 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	U - Imperial Range UP - Imperial Peak Range UPP - Imperial Peak to Peak Range	Velocity Range (RMS unless specified) 012 - ½ IPS 055 - 1 IPS 050 - 2 IPS 100 - 4 IPS	Cable/Connecto 01 - PUR 54 - M12	r	01 - ¼- 02 - ¼- 05 - Qu 06 - M6 08 - M8	ing Thread 28" UNF F 28" UNF M uick Fit Fer 5 x 1mm M 3 x 1.25mn 10 x 1.5mn	^E emale Male male Iale n Male
Hansford Sensors Excellence in Vibration Monitoring		www.hansfordsensors.com sales@hansfordsensors.com We reserve the right to alter the specification of this product without prior notice TS0280.9					