

HS-173RHT Premium Triaxial Accelerometer

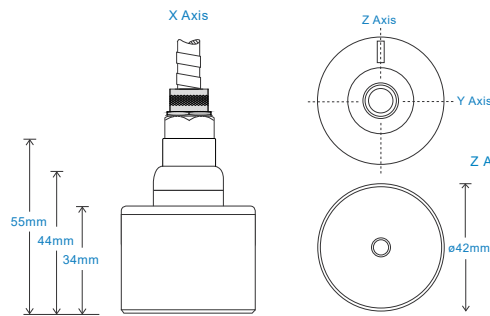
AC Acceleration and Temperature Output via 5 Core PTFE Cable with Protective Conduit

Key Features

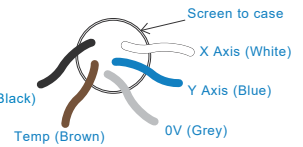
- High Temperature
- For use with data collector
- Protective Conduit

Industries

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



Connection Details



Technical Performance

Mounted Base Resonance	see 'How To Order' table (nominal)
Sensitivity	see: 'How To Order' table $\pm 10\%$ Nominal 80Hz at 22°C per axes
Frequency Response	2Hz (120cpm) to 10kHz (600kcpm) $\pm 5\%$ 1.5Hz (90cpm) to 12kHz (720kcpm) $\pm 10\%$ 0.8Hz (48cpm) to 15kHz (900kcpm) $\pm 3\text{dB}$
Isolation	Base isolated
Range	see: 'How To Order' table
Temperature Output	10 mV/°C via X axis - 150°C
Transverse Sensitivity	Less than 5%

Mechanical

Case Material	Stainless Steel
Sensing Element/Construction	PZT/Shear
Mounting Torque	8Nm
Weight	194gms (nominal) - Stainless Steel
Maximum Cable Length	1000 metres
Standard Cable Length	5 metres
Screened Cable	PTFE Cable - length to be specified with order
Mounting Threads	see: 'How To Order' table
Mounting Stud	HS-AS226, HS-AS221 or HS-AS222
Submersible Depth	100 metres max (10 bar)
Conduit Material	Stainless Steel
Conduit Length	Conduit Length is approx. 0.5m shorter than the cable

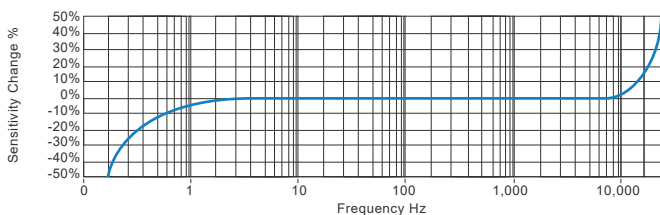
Electrical

Electrical Noise	0.1mg max
Current Range	0.5mA to 8mA
Bias Voltage	10 - 12 Volts DC
Settling Time	1 second
Output Impedance	200 Ohms max.
Case Isolation	$>10^8$ Ohms at 500 Volts

Environmental

Operating Temperature Range	-55 to 150°C
Sealing	IP68
Maximum Shock	5000g
EMC	EN61326-1:2013

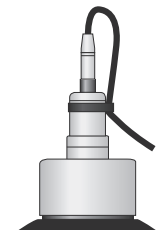
Typical Frequency Response (at 100mV/g)



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												
HS - Hansford Sensors		173 - Triaxial Industrial Vibration Sensor												
H	S	1	7	3	R	H	T	X	X	X	X	X	X	X
Extra Options (if required)		Sensitivity		Range		Resonant Frequency		Cable/Connector		Mounting Threads				
F - Filtered		010 - 10mV/g		±800g		20kHz (1,200cpm)		38 - 5 Core PTFE Cable		01 - ¼-28" UNF Female				
R - Round Design		030 - 30mV/g		±250g		19kHz (1,140cpm)		38C - 5 Core PTFE Cable		02 - ¼-28" UNF Male				
H - High Temperature		050 - 50mV/g		±160g		18kHz (1,080cpm)		with Protective conduit.		06 - M6 x 1mm Male				
T - Temperature Output		100 - 100mV/g		±80g		17kHz (1,020cpm)				08 - M8 x 1.25mm Male				
		250 - 250mV/g		±32g		16kHz (960cpm)								
		500 - 500mV/g		±16g		15kHz (900cpm)								



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We reserve the right to alter the specification of this product without prior notice TS1132.6

