

HS-150T Premium Accelerometer

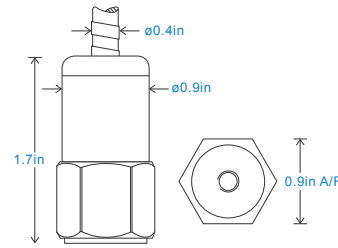
AC acceleration and temperature output via FEP Cable with Protective Conduit

Key Features

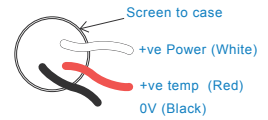
- Resistant to oil
- Protective Conduit

Industries

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



Connection Details



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	90cpm (1.5Hz) to 600kcpm (10kHz) $\pm 5\%$ 30cpm (0.5Hz) to 720kcpm (12kHz) $\pm 10\%$ 12cpm (0.2Hz) 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 300°F
Transverse Sensitivity	Less than 5%

Mechanical

Case Material	Stainless Steel
Sensing Element/Construction	PZT/Shear
Mounting Torque	5.9ft. lbs
Weight	see: 'How To Order' table x 1.2in long
Shielded Cable Assembly	6.5 oz. (nominal) body only
Maximum Cable Lengths	3,280ft
Standard Cable Lengths	16ft
Mounting Threads	see 'How To Order' Table
Conduit Material	316 Stainless Steel
Conduit Length	Conduit Length is approx. 1.6ft shorter than the cable

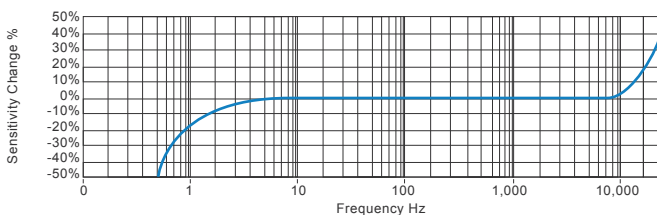
Electrical

Excitation Voltage	18-30Volts 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 300°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		Product Series											
HS - Hansford Sensors		150 - Premium Industrial Vibration Sensor											
H	S	1	5	0	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		2,040kcpm (34kHz)		33C - FEP with Protective Conduit	01 - ¼-28" UNF Female
HT - High Temperature maximum 300°F					030 - 30mV/g			±250g		1,980kcpm (33kHz)			02 - ¼-28" UNF Male
L - 316L Stainless Steel					050 - 50mV/g			±160g		1,920kcpm (32kHz)			05 - Quick Fit Female
RT - Temperature Output PT100					100 - 100mV/g			±80g		1,800kcpm (30kHz)			06 - M6 x 1mm Male
S - 90° Side Exit					250 - 250mV/g			±32g		1,680kcpm (28kHz)			08 - M8 x 1.25mm Male
T - Temperature Output					500 - 500mV/g			±16g		1,560kcpm (26kHz)			10 - M10 x 1.5mm Male
Y - 5% tolerance on sensitivity													



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

TS786U.8

