

HS-100T Accelerometer

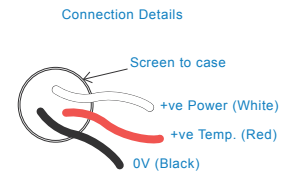
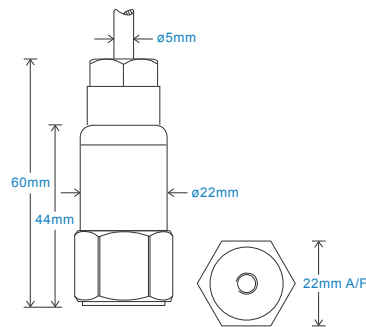
AC acceleration and temperature output via Silicon Cable

Key Features

- Temperature output
- For use with data collector
- Waterproof

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 22°C
Frequency Response	2Hz (120cpm) to 10kHz (600kcpm) ± 5%
	1.5Hz (90cpm) to 12kHz (720kcpm) ± 10%
	0.8Hz (48cpm) to 15kHz (900kcpm) ± 3dB
Isolation	Base isolated
Range	see: 'How To Order' table
Temperature Output	10 mV/°C standard 100°C - Option 140°C
Transverse Sensitivity	Less than 5%

Mechanical

Case Material	Stainless Steel
Sensing Element/Construction	PZT/Compression
Mounting Torque	8Nm
Weight	106gms (nominal) body only
Maximum Cable Length	1000 metres
Standard Cable Length	5 metres
Screened Cable	Silicon - length to be specified with order
Mounting Threads	see: 'How To Order' table
Submersible Depth	100 metres max. (10 bar)

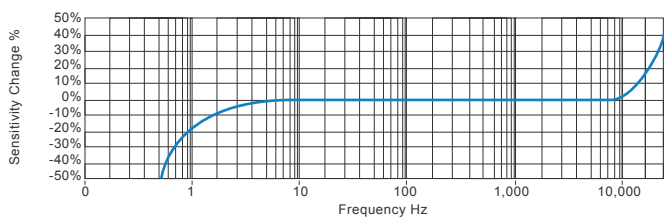
Electrical

Excitation Voltage	18-30 Volts 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	-50 to 140°C
Sealing	IP68
Maximum Shock	5000g
EMC	EN61326-1:2013

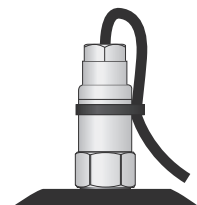
Typical Frequency Response (at 100mV/g)



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 HS - Hansford Sensors	Product Series 100 - Industrial Vibration Sensor	Cable Length QXX - length specified in metres												
H	S	1	0	0	T	X	X	X	X	X	X	X	X	X
Extra Options (if required)		Sensitivity	Range	Resonant Frequency	Cable/Connector	Mounting Threads								
F - Filtered	L - 316L Stainless Steel	010 - 10mV/g	±800g	34kHz (2,040kcpm)	01 - PUR	01 - 1/4-28" UNF Female								
I - Intrinsically Safe	S - 90° Side Exit	030 - 30mV/g	±250g	33kHz (1,980kcpm)	03 - Braided	02 - 1/4-28" UNF Male								
L - 316L Stainless Steel	T - Temperature Output	050 - 50mV/g	±160g	32kHz (1,920kcpm)	07 - Silicon	05 - Quick Fit Female								
S - 90° Side Exit	Y - 5% tolerance on sensitivity	100 - 100mV/g	±80g	30kHz (1,800kcpm)	15 - Flame Retardant	06 - M6 x 1mm Male								
T - Temperature Output		250 - 250mV/g	±32g	28kHz (1,680kcpm)	52 - 3 Pin MS	08 - M8 x 1.25mm Male								
Y - 5% tolerance on sensitivity		500 - 500mV/g	±16g	26kHz (1,560kcpm)	54 - M12	10 - M10 x 1.5mm Male								



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We reserve the right to alter the specification of this product without prior notice
TS045.8