# **HS-100 Accelerometer**

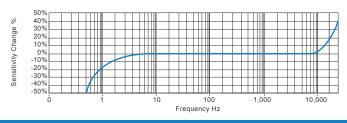
AC acceleration output via PUR Cable



Technical Performance		Mechanical	
Mounted Base Resonance	see 'How To Order' table (nominal)	Case Material	Stainless Steel
Sensitivity	see: 'How To Order' table ±10%	Sensing Element/Construction	PZT/Compression
	Nominal 80Hz at 22°C	Mounting Torque	8Nm
Frequency Response	2Hz (120cpm) to 10kHz (600kcpm) ± 5%	Weight	106gms (nominal) body only
	1.5Hz (90cpm) to 12kHz (720kcpm) ± 10%	Maximum Cable Length	1000 metres
	0.8Hz (48cpm) to 15kHz (900kcpm) ± 3dB	Standard Cable Length	5 metres
Isolation	Base isolated	Screened Cable	PUR - length to be specified with order
Range	see: 'How To Order' table	Mounting Threads	see: 'How To Order' table
Transverse Sensitivity	Less than 5%	Submersible Depth	100 metres max (10 bar)

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 <sup>8</sup> Ohms at 500 Volts

### Typical Frequency Response (at 100mV/g)



#### Applications

Environmental

Sealing Maximum Shock

EMC

**Operating Temperature Range** 

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.)



CE

UK CA

-30 to 90°C

EN61326-1:2013

IP68

5000g

#### How To Order

	oduct Series 0 - Industrial Vibration S	t Series dustrial Vibration Sensor							Cable Length 2XX - length specified in metres		
H S 1 0	0 X	X	X	X	X	X	X	X	X	X	X
Extra Options (if required) F - Filtered I - Intrinsically Safe L - 316L Stainless Steel RT - Temperature Output PT100 T - Temperature Output Y - 5% tolerance on sensitivity	250 - 250mV/g	Range ±800g ±250g ±160g ±80g ±32g ±16g	Resona 34kHz 33kHz 32kHz 30kHz 28kHz 26kHz	nt Frequei (2,040kc (1,980kc (1,920kc (1,800kc (1,680kc (1,560kc	pm) pm) pm) pm) pm)	01 - PL 02 - Br 07 - Si	aided licon ame Retar Pin MS		01 - 1/4 02 - 1/4 05 - Qu 06 - Mi 08 - Mi	ing Threa 28" UNF 28" UNF uick Fit Fe 3 x 1mm M 3 x 1.25m 10 x 1.5m	Female Male emale Male m Male



## www.hansfordsensors.com sales@hansfordsensors.com

We reserve the right to alter the specification of this product without prior notice TS083.8