# HS-150 Premium Accelerometer AC acceleration output via PUR Cable

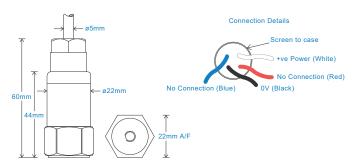
## **Key Features**

- Waterproof
- · Resistant to oil
- Premium design

## Industries

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

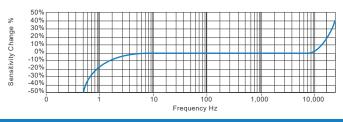




Technical Performance	)	Mechanical	
Mounted Base Resonance	see 'How To Order' table (nominal)	Case Material	Stainless Steel
Sensitivity	see: 'How To Order' table ±10%	Sensing Element/Construction	PZT/Shear
	Nominal 80Hz at 22°C	Mounting Torque	8Nm
Frequency Response	1.5Hz (90cpm) to 10kHz (600kcpm) ± 5%	Weight	106gms (nominal) body only
	0.5Hz (30cpm) to 12kHz (720kcpm) ± 10%	Maximum Cable Length	1000 metres
	0.2Hz (12cpm) 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.)



-30 to 90°C

EN61326-1:2013

IP68

5000g

## How To Order

Product Prefix Product Series   HS - Hansford Sensors 150 - Premium Industrial V				ibration Sensor						Cable Length (if integral cable) QXX - length specified in metres			
H S 1	5	0	X	X	X	X	X	X	X	X	X	X	X
Extra Options (if required) F - Filtered L - 316L Stainless Steel RT - Temperature Output PT100 S - 90° Side Exit T - Temperature Output Y - 5% tolerance on sensitivity		Sensitivity Range Resonal   010 10mV/g ±800g 34kHz   030 -30mV/g ±250g 33kHz   050 -50mV/g ±160g 32kHz   100 -100mV/g ±80g 30kHz   250 -250mV/g ±32g 28kHz   500 -500mV/g ±16g 26kHz			nt Freque (2,040kg (1,980kg (1,920kg (1,800kg (1,680kg (1,560kg	:pm) :pm) :pm) :pm) :pm)	Cable/Connector 01 - PUR 02 - Braided 07 - Silicon 08 - Flame Retardant 50 - 2 Pin MS 54 - M12			Mounting Threads 01 - ¼-28" UNF Female 02 - ¼-28" UNF Male 05 - Quick Fit Female 06 - M6 x 1mm Male 08 - M8 x 1.25mm Male 10 - M10 x 1.5mm Male			



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CE

We reserve the right to alter the specification of this product without prior notice TS278.8