# **HS-100T Accelerometer**

# AC acceleration and temperature output via PUR Cable

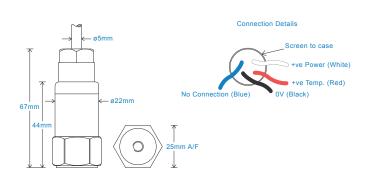
#### **Key Features**

- Temperature output
- · For use with data collector
- Waterproof
- · Resistant to oil

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

#### Mechanical

Stainless Steel
PZT/Compression
8Nm
125gms (nominal)
1000 metres
5 metres
PUR - length to be specified with order
see: 'How To Order' table
100 metres max. (10 bar)

#### Electrical

 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
 >108 Ohms at 500 Volts

#### Environmental

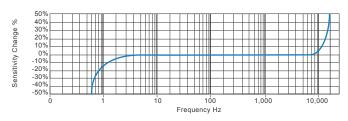
 Operating Temperature Range
 -30 to 90°C

 Sealing
 IP68

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

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



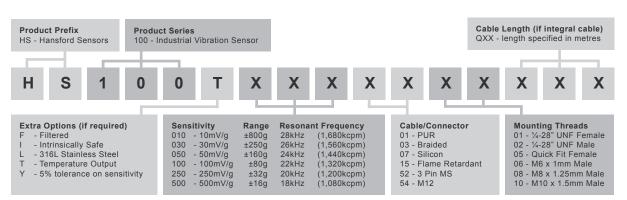
#### **Applications**

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





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