# **HS-100FRT Accelerometer**

## AC acceleration and PT100 temperature output via PUR Cable

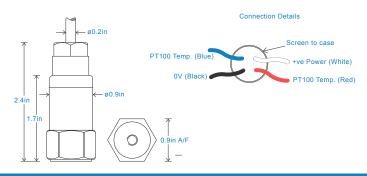
#### **Key Features**

- Temperature output PT100
- · Filtered output
- · Waterproof and 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 72°F Frequency Response 90cpm (1.5Hz) to 600kcpm (10kHz) ± 5% 30cpm (0.5Hz) to 720kcpm (12kHz) ± 10% 12cpm (0.2Hz) to 900kcpm (15kHz) ± 3dB Isolation Base isolated Range see: 'How To Order' table Temperature Output PT100 (100 Ohms) Transverse Sensitivity Less than 5%

#### Mechanical

Case Material Stainless Steel Sensing Element/Construction PZT/Compression Mounting Torque 5.9ft. lbs 3.7 oz. (nominal) body only Weight Maximum Cable Length 3.280 ft. Standard Cable Length 16 ft. Shielded Cable PUR - length to be specified with order Mounting Threads see: 'How To Order' table Submersible Depth 328 ft. 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
 >108 Ohms at 500 Volts

#### Environmental

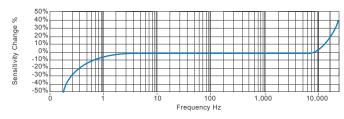
 Operating Temperature Range
 -22 to 194°F

 Sealing
 IP68

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

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



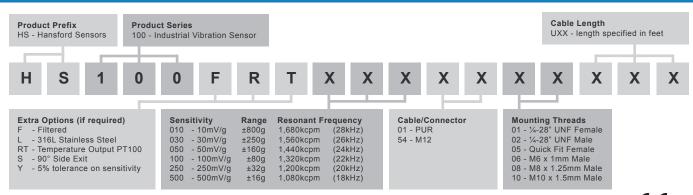
#### **Applications**

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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