# **HS-420T Accelerometer**

# 4-20mA velocity and temperature output via PUR Cable

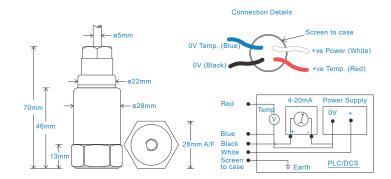
## **Key Features**

- Waterproof
- · Resistant to oil
- · Temperature output

#### Industries

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





#### **Technical Performance**

Mounted Base Resonance 5kHz min

Velocity Ranges see: 'How To Order' table ±10%

Nominal 80Hz at 22°C

Frequency Response 10Hz (600cpm) to 1kHz (60kcpm) ± 5% - ISO10816
Isolation Base isolated
Range 50g peak

Temperature Output 10mV/°C - 0-1V proportional to 0-100°C (to convert

this to 4-20mA use the HS-540 module)
Transverse Sensitivity
Less than 5%

#### Mechanical

Case Material Stainless Steel Sensing Element/Construction PZT/Compression Mounting Torque Weight 150gms (nominal) body only Maximum Cable Length 1000 metres Standard Cable Length 5 metres Screened Cable PUR - length to be specified with order see: 'How To Order' table Mounting Threads Submersible Depth 100 metres max (10 bar)

#### Electrical

Current Output 4-20mA DC proportional to Velocity Range
Supply Voltage 15-30 Volts DC (for 4-20mA)
Settling Time 2 seconds
Output Impedance Loop Resistance 600 Ohms max. at 24 Volts
Case Isolation >10<sup>8</sup> Ohms at 500 Volts

#### Environmental

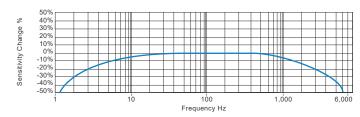
 Operating Temperature Range
 -25 to 90°C

 Sealing
 IP68

 Maximum Shock
 5000g

 EMC
 EN61326-1:2013

## Typical Frequency Response



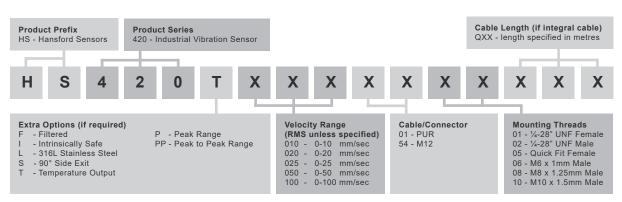
#### **Applications**

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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