

HS-422ST Accelerometer

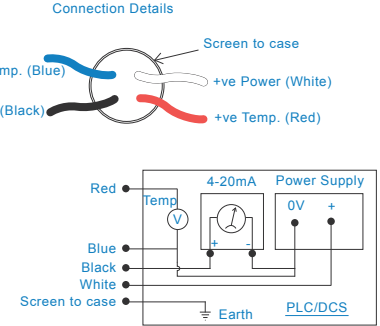
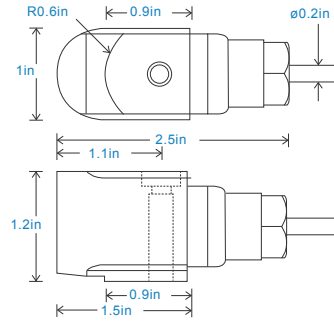
4-20mA acceleration and temperature output via PUR Cable

Key Features

- Temperature output
- Waterproof
- Resistant to oil

Industries

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



Technical Performance

| | |
|------------------------|--|
| Mounted Base Resonance | 10kHz min |
| Acceleration Ranges | see: 'How To Order' table $\pm 10\%$ Nominal 80Hz at 72°F |
| Frequency Response | 600cpm (10Hz) to 300kcpm (5kHz) $\pm 5\%$ - ISO10816 |
| Isolation | Base isolated |
| Range | see: 'How To Order' table |
| Temperature Output | 10mV/°C - 0-1V proportional to 32-212°F (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/Shear |
| Mounting Torque | 5.9ft. lbs |
| Mounting Bolt Provided | see: 'How To Order' table x 1.2in long |
| Weight | 6.5 oz. (nominal) |
| 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) |

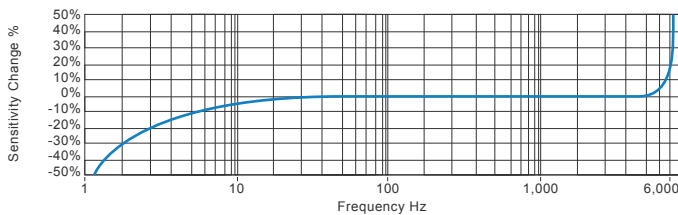
Electrical

| | |
|------------------|---|
| Current Output | 4-20mA DC proportional to acceleration |
| Supply Voltage | 15-30 Volts DC (for 4-20mA) |
| Settling Time | 1 second |
| Output Impedance | Loop Resistance 600 Ohms max. at 24 Volts |
| Case Isolation | >10 ⁸ Ohms at 500 Volts |

Environmental

| | |
|-----------------------------|----------------|
| Operating Temperature Range | -13 to 194°F |
| Sealing | IP68 |
| Maximum Shock | 5000g |
| EMC | EN61326-1:2013 |

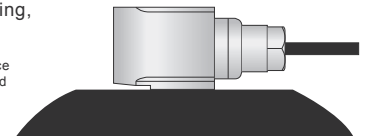
Typical Frequency Response



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

| Product Prefix HS - Hansford Sensors | | Product Series 422 - Industrial Vibration Sensor | | | | | Cable Length (if integral cable) UXX - length specified in feet | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|--|---|---|---|---|
| H | S | 4 | 2 | 2 | S | T | 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 P - Peak Range PP - Peak to Peak Range | | | | | | | Acceleration Range (RMS unless specified) 001 - 0-1g 002 - 0-2g 005 - 0-5g 010 - 0-10g 100 - 0-100g | | | Cable/Connector 01 - PUR 54 - M12 | | Mounting Threads 02 - ¼-28" UNF Male 06 - M6 x 1mm Male 08 - M8 x 1.25mm Male | | |



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

TS497U.5

