

# HS-483 Triaxial Accelerometer

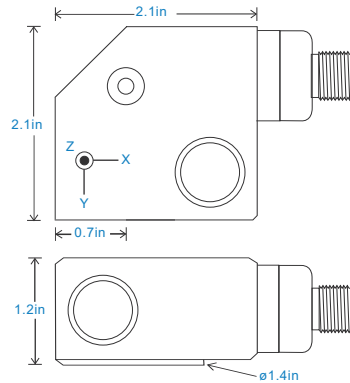
4-20mA acceleration output via 8 Pin M12 Connector

## Key Features

- For use with PLC/DCS systems
- Customisable features

## Industries

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



### Connection Details

- Pin 1 - White - X Power
- Pin 2 - Brown - X 0V
- Pin 3 - Green - Temp Out
- Pin 4 - Yellow - Y Power
- Pin 5 - Black - Y 0V
- Pin 6 - Purple - Temp 0V
- Pin 7 - Blue - Z Power
- Pin 8 - Red - Z 0V



### Temp Sensor

- Pin 1 - +
- Pin 3 - Temp Out
- Pin 6 - 0V



## Technical Performance

Mounted Base Resonance	17kHz (nominal)
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
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 1.5in long
Weight	18.7 oz. (nominal) body only
Screened Cable Assembly	HS-AC731
Mounting Threads	see: 'How To Order' table

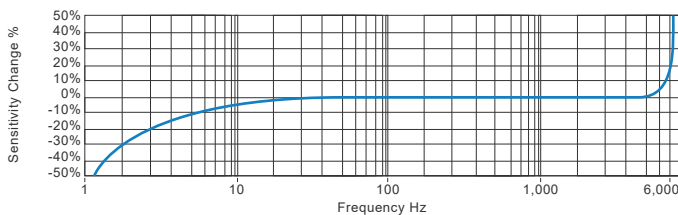
## Electrical

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 248°F
Sealing	IP67
Maximum Shock	5000g
EMC	EN61326-1:2013

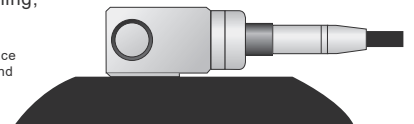
## Typical Frequency Response



## 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		Product Series									
HS - Hansford Sensors		483 - Industrial Vibration Sensor									
H	S	4	8	3	X	X	X	X	X	X	X
Extra Options (if required)					Acceleration Range (RMS unless specified)			Cable/Connector		Mounting Threads	
F - Filtered					001 - 0-1g			66 - 8 Pin Connector		02 - 1/4-28" UNF Male	
L - 316L Stainless Steel					002 - 0-2g					06 - M6 x 1mm Male	
RT - Temperature Output PT100					005 - 0-5g					08 - M8 x 1.25mm Male	
T - Temperature Output					010 - 0-10g						
					050 - 0-50g						
					100 - 0-100g						