

# HS-483 Triaxial Accelerometer

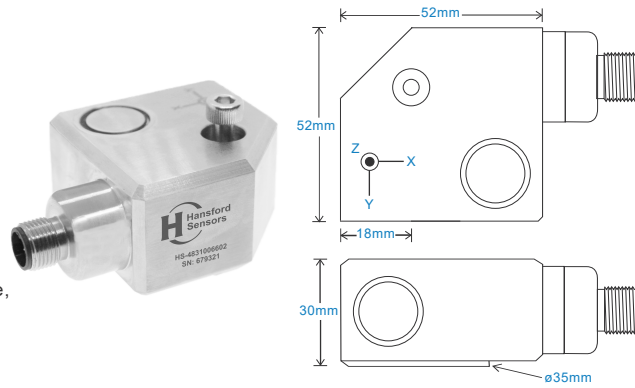
4-20mA acceleration output via 8 Pin M12 Connector

## Key Features

- For use with PLC/DCS systems
- Customisable features

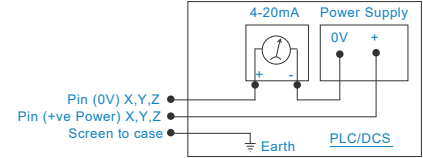
## Industries

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



### Connection Details

- Pin 1 - +ve Power X
- Pin 2 - 0V X
- Pin 3 - No Connection
- Pin 4 - +ve Power Y
- Pin 5 - 0V Y
- Pin 6 - No Connection
- Pin 7 - +ve Power Z
- Pin 8 - 0V Z



## Technical Performance

Mounted Base Resonance	17kHz (nominal)
Acceleration Ranges	see: 'How To Order' table $\pm 10\%$ Nominal 80Hz at 22°C
Frequency Response	10Hz (600cpm) to 5kHz (300kcpm) $\pm 5\%$ - 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	8Nm
Mounting Bolt Provided	see: 'How To Order' table x 37mm long
Weight	530 gms (nominal) body only
Screened Cable Assembly	HS-AC731
Mounting Threads	see: 'How To Order' table

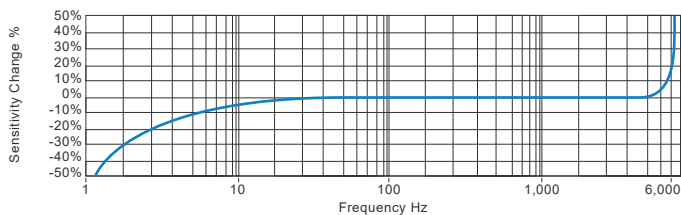
## Electrical

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	-25 to 120°C
Sealing	IP67
Maximum Shock	5000g
EMC	EN61326-1:2013

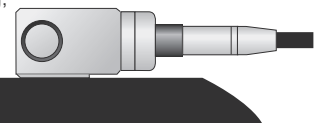
## Typical Frequency Response



## 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 L - 316L Stainless Steel RT - Temperature Output PT100 T - Temperature Output					P - Peak Range PP - Peak to Peak Range			66 - 8 Pin Connector		02 - 1/4-28" UNF Male 06 - M6 x 1mm Male 08 - M8 x 1.25mm Male	
					001 - 0-1g 002 - 0-2g 005 - 0-5g 010 - 0-10g 100 - 0-100g						



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We reserve the right to alter the specification of this product without prior notice  
TS1240.3