

# HS-483 Triaxial Accelerometer

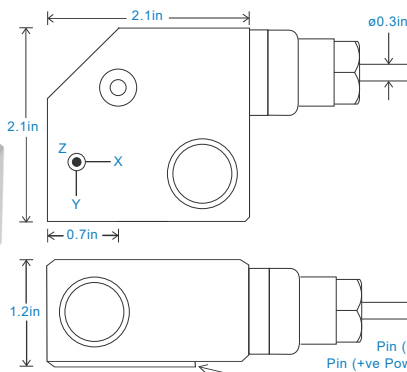
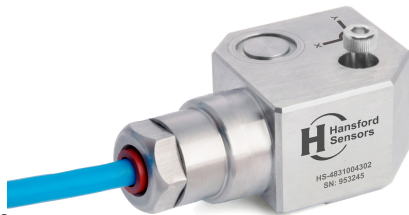
4-20mA acceleration output via 8 core PUR cable

## Key Features

- For use with PLC/DCS systems
- Customisable features
- Waterproof

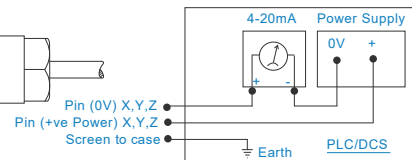
## Industries

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



### Connection Details

White - +ve Power X  
Brown - 0V X  
Yellow - +ve Power Y  
Black - 0V Y  
Blue - +ve Power Z  
Red - 0V Z



## 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
Maximum Cable Length	3,280 ft.
Standard Cable Length	16 ft.
Screened Cable	PUR - length to be specified with order
Mounting Threads	see: 'How To Order' table
Submersible Depth	328 ft. max (10 bar)

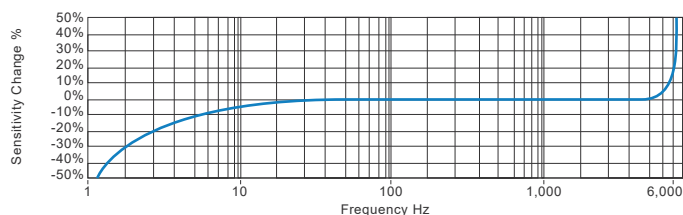
## Electrical

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	-22 to 194°F
Sealing	IP68
Maximum Shock	5000g
EMC	EN61326-1:2013

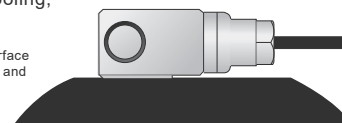
## Typical Frequency Response



## 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		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	U		- Imperial Range		001	-	0-1g	02 - 1/4-28" UNF Male	
L	-	316L Stainless Steel	UP		- Imperial Peak Range		002	-	0-2g	06 - M6 x 1mm Male	
RT	-	Temperature Output PT100	UPP		- Imperial Peak to Peak Range		005	-	0-5g	08 - M8 x 1.25mm Male	
T	-	Temperature Output					010	-	0-10g		
							100	-	0-100g		



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We reserve the right to alter the specification of this product without prior notice  
TS1315U

