

# HS-483 Triaxial Accelerometer

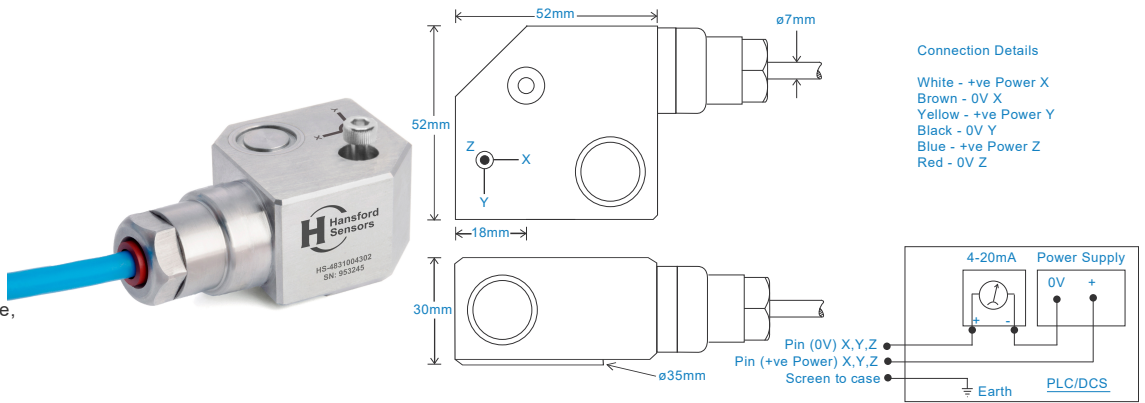
4-20mA acceleration output via 8 core PUR cable

## Key Features

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

## Industries

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



## 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
Maximum Cable Length	1000 metres
Standard Cable Length	5 metres
Screened Cable	PUR - length to be specified with order
Mounting Threads	see: 'How To Order' table
Submersible Depth	100 metres max (10 bar)

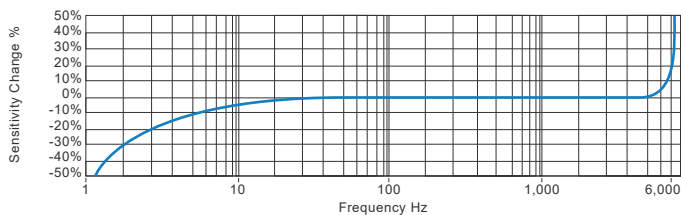
## Electrical

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	-30 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

Product Prefix	Product Series											
HS - Hansford Sensors	483 - Industrial Vibration Sensor											
H	S	4	8	3	X	X	X	X	X	X	X	Qxxx
												xxx=cable 길이
Extra Options (if required)												
F - Filtered L - 316L Stainless Steel RT - Temperature Output PT100 T - Temperature Output												
P - Peak Range PP - Peak to Peak Range												
가속도 Range (RMS unless specified)												
001 - 0-1g 002 - 0-2g 005 - 0-5g 010 - 0-10g 100 - 0-100g												
Cable/Connector												
43 - 8 Core PUR												
Mounting Threads												
02 - 1/4-28" UNF Male 06 - M6 x 1mm Male 08 - M8 x 1.25mm Male												



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TS1315



# HS-483 Triaxial Accelerometer

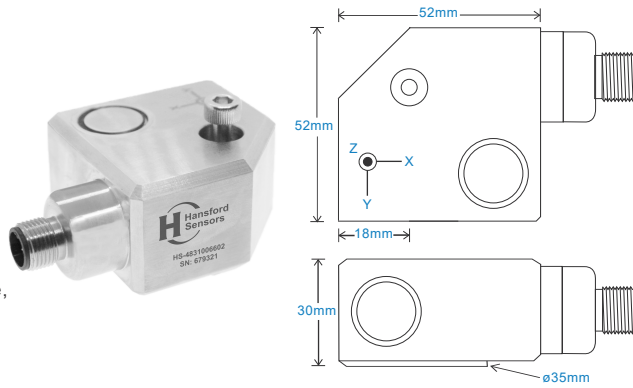
4-20mA acceleration output via 8 Pin M12 Connector

## Key Features

- For use with PLC/DCS systems
- Customisable features

## Industries

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



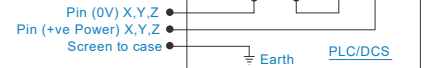
## Connection Details

- 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

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Frequency Response	10Hz (600cpm) to 5kHz (300kcpm) $\pm 5\%$ - ISO10816
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## Mechanical

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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	<b>HS-AC731</b>
Mounting Threads	see: 'How To Order' table

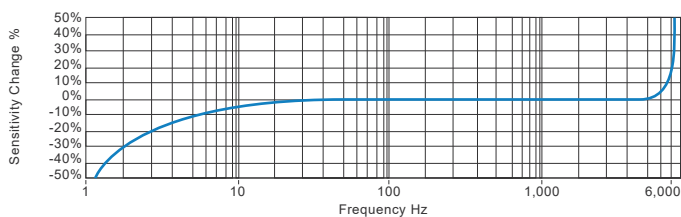
## Electrical

Current Output	<b>4-20mA DC proportional to acceleration</b>
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	<b>-25 to 120°C</b>
Sealing	<b>IP67</b>
Maximum Shock	5000g
EMC	EN61326-1:2013

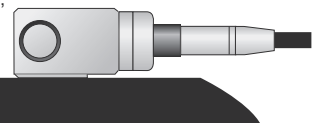
## Typical Frequency Response



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## How To Order

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



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