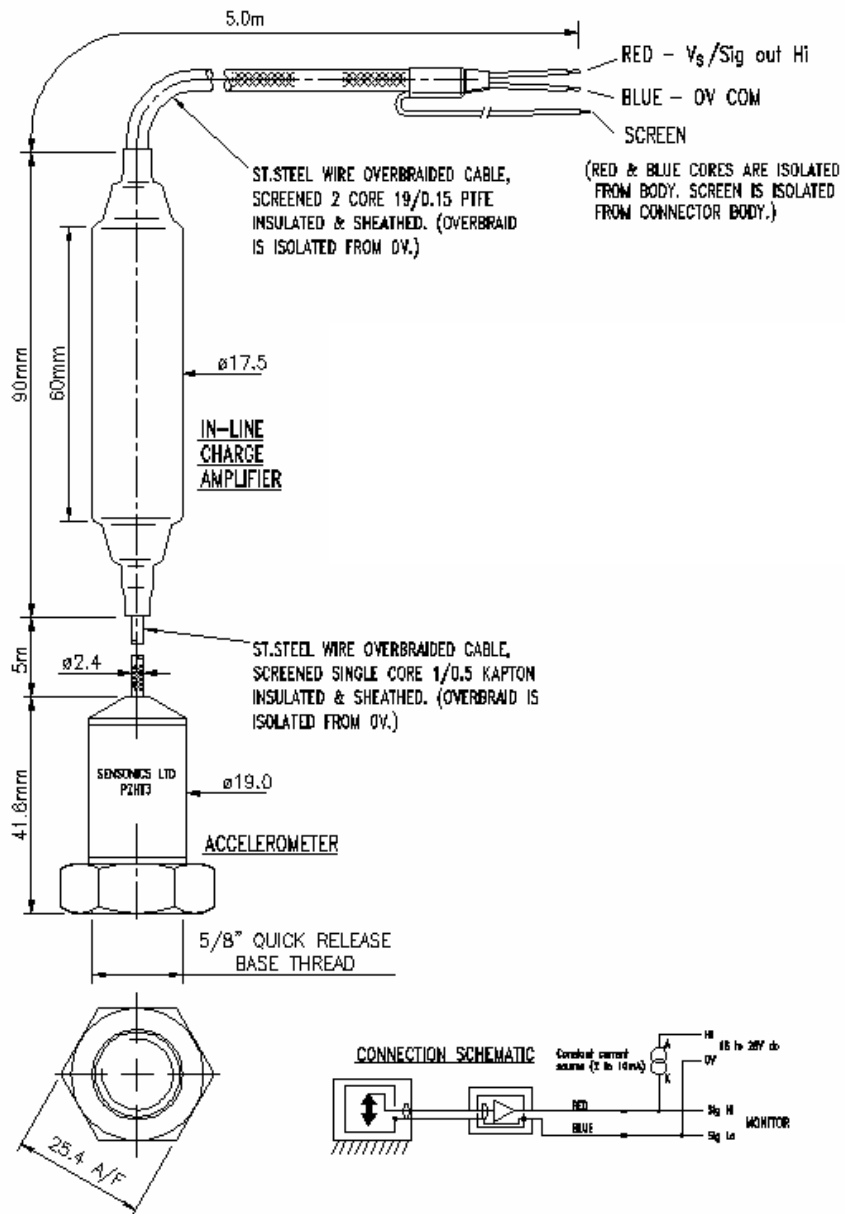


PZHT2 HIGH TEMPERATURE ACCELEROMETER



The PZHT2 vibration transducer has been designed for operation in high temperature machine environments of up to 200°C. The unit achieves a high signal output by utilising an integral charge amplifier built in to the cable assembly, located away from the heat source (<90°C).

Accelerometers with integral electronics are typically limited to 150°C operation. The PZHT2 provides all the advantages of standard ICP type accelerometers with the added advantage of operation in extreme environments. Ideally suited for absolute bearing vibration monitoring in equipment applications ranging from, gas turbines to the dryer sections of paper machines.

The sensing element is contained within a robust, sealed, stainless steel case having a solid base with a single fixing thread. The two-wire current-loop operating principal permits very long interconnecting cables and at minimum expense since standard screened pair (or multi-pair) cables may be used.

HIGH TEMPERATURE ACCELEROMETER

SPECIFICATION

Operating Voltage / current	18 to 28 volts DC constant current source of 2 to10mA
Operating temperature range – accelerometer	-40°C to +200°C
– cable amplifier	-20°C to +90°C
Output signal	2 wire, 100mV/g superimposed on 12VDC \pm 20%
Dynamic Range.....	Up to 70g peak (at 24Vdc input)
Frequency Range	8.0Hz to 10kHz (better than 3dB)
Transverse sensitivity	Less than 5%
Amplitude linearity	\pm 1% or better
Residual electrical noise	0.2mg (2.5Hz to 11kHz)
Voltage Sensitivity.....	100mV/g \pm 20%
Insulation Resistance (at 20°C, screen to case)	100 M Ω
Dimensions, Height	40mm
Width (across flats of hexagon).....	19mm
Weight.....	85 gms (nominal)
Mounting.....	5/8" UNF Quick Release
Cable length – accelerometer to amplifier.....	5m fixed
– amplifier to customer terminals	5m as standard, please specify
Cable type – accelerometer to amplifier.....	stainless steel armour low noise high temperature cable
– amplifier to customer terminals	PVC cable
Storage/survivability temperature range – accelerometer	-40°C to +200°C
– amplifier.....	-40°C to +90°C
Ingress Protection (BS.EN60529).....	Sealed to IP.67

ORDERING INFORMATION

PZHT2 - A B C D E F

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A Electrical Configuration

2	- 2 wire ICP device
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D Output & Frequency band (3dB point)

1	- 100mV/g \pm 20% (8Hz – 10KHz)
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B Connection Method

6	D	- Integral Armoured Cable
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E Mounting Thread (Female)

1	- 5/8" UNF Quick Release
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C Cable length

- | | |
|---|---|
| 5 | - 5 metres set length transducer to amplifier |
| | - Specify amplifier to cable end length |

F Hazardous Area Approval

0	- Non Intrinsic
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