

Technical Specifications for Accelerometer transducer

Accelerometers

- Should have maximum acceleration sensitivity up to $\pm 5g$
- The equipment should withstand water pressure up to 300 kPa and should be water tight, temperature resistant and corrosion resistant with excellent coating

Performance

- Nonlinearity - Within $\pm 1\%$ RO
- Hysteresis - Within $\pm 1\%$ RO
- Rated Output - 0.5 mV/V (1000×10^{-6} strain) or more

Electrical Characteristics

- Safe Excitation - 6 VAC or DC
- Recommended Excitation - 1 to 3 VAC or DC
- Input Resistance - $122 \Omega \pm 1.6\%$
- Output Resistance - $122 \Omega \pm 1.6\%$

ACCESSORIES

- The equipment should be provided with necessary supporting cables (Up to 5 m) to connect with data acquisition system.
 - Cable 4-conductor (0.08 mm²) chloroprene shielded cable,
 - 4 mm diameter by 5 m long, terminated with a connector plug
 - Underwater application possible
 - Shield wire is connected to the case

Mechanical Properties

- Safe Overloads - 300%
- Frequency - Response DC to 100 Hz $\pm 5\%$
- Transverse Sensitivity - 4% RO or less
- Withstand Water Pressure - 490 kPa

Material Case: Corrosion resistant aluminum anode oxidized coated

- Weight Approx. 40 g (Excluding cable)

Others:

- 3 year warranty
- Installation, Demonstration and Training at CSIR-CBRI,