

Radiation Resistant Servo-Inclinometer model TS2R

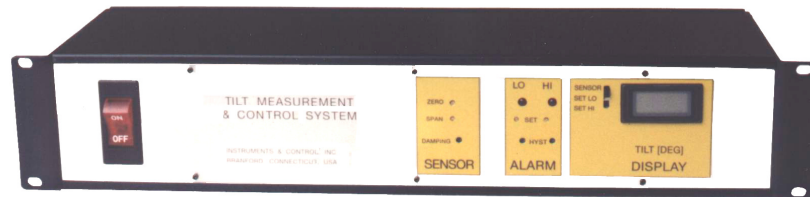


This Servo-Inclinometer was designed to operate in intense radiation environment. It was originally developed in cooperation with Ontario-Hydro of Canada to monitor the fuelling machines of nuclear power-stations, where it is exposed to radiation over extended periods of time. The sensors were wired to a remote control box, to provide monitoring, control and alarm functions.



• FEATURES

- High radiation resistance
- High accuracy closed-loop operation
- Good repeatability
- Fast response
- Low power consumption
- High level, low impedance output

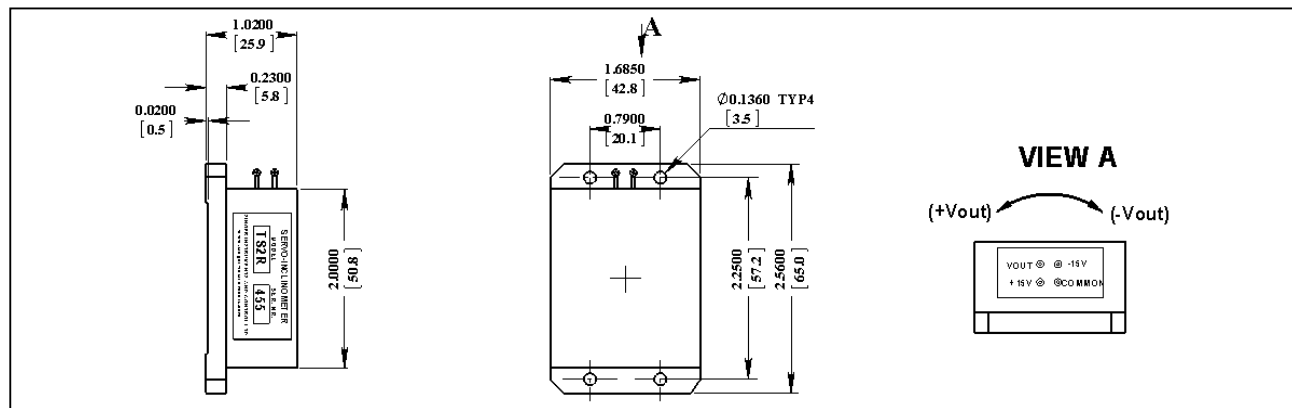


• SPECIFICATIONS:

Measuring range	±2 degrees to ±15 degrees max
Non-linearity error	0.02%FR typ (1)
Resolution	<0.01%FR
Non-repeatability & hysteresis	<0.001 deg
Sensitive axis misalignment	< 0.75 deg
Cross-axis sensitivity	<0.002g/g
Bias	<0.1 deg
Power supply	±15VDC @ 10 mA
Output	±5V max
Output impedance	<10 Ω
Step response	50 msec
Zero temperature coefficient	0.002 deg/°C typ (10 to 40°C)
Span temperature coefficient	0.02%/°C typ
Operating temperature range	0 to +70°C
Rated performance temperature range	10 to +40°C
Maximum overload	100g constant acceleration
Shock survival	250g, 11msec
Housing material	Sulphuric anodized # 2024 Aluminum alloy
Weight	100 grams

Notes: 1) Non-linearity error defined as maximum deviation of any point from the theoretical sine function line in percents of the full measuring range.

• DIMENSIONS (INCH/[mm]):



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