

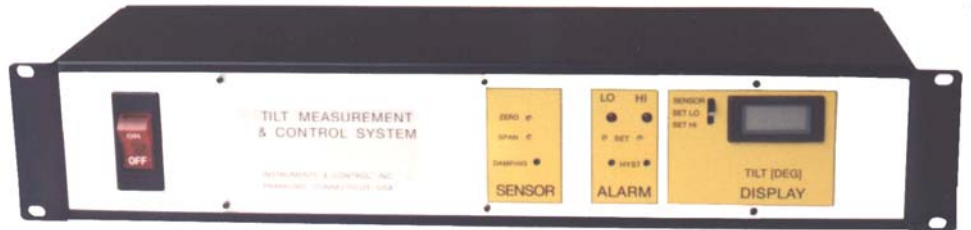
# Radiation Resistant Servo-Inclinometer model TS2R

This Servo-Inclinometer was designed to operate in intense radiation environments. 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

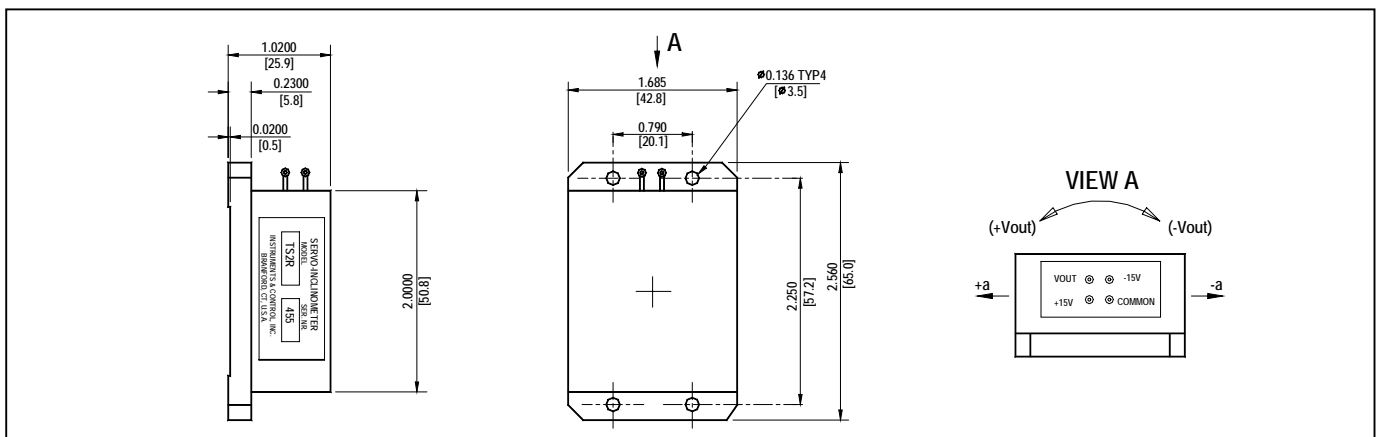


**• SPECIFICATIONS:**

Measuring range	±2 degrees (+/-30 deg. max.)
Non-linearity error	0.02%FR typ (1)
Resolution	<1 arc-sec
Non-repeatability & hysteresis	<0.001 deg
Sensitive axis misalignment	< 0.5 deg
Cross-axis sensitivity	<0.002g/g
Bias	<0.1 deg
Power supply	±15VDC @ 10 mA
Output	±1V per degree
Output impedance	<10 Ω
Step response	50 msec
Zero temperature coefficient	0.001 deg/°C typ (10 to 40°C)
Span temperature coefficient	0.02%/°C typ
Temperature range	-10 to +50°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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