## Submersible Tilt Meter

## **Description**

## NOTE: This is a legacy and discontinued product not available for order.

The RST Submersible Tiltmeter provides precision real-time remote monitoring of tilt of submerged structures. It consists of a MEMS inclinometer sensor and electronics mounted inside a rugged waterproof enclosure. The instrument housing is machined from solid stainless steel, providing extreme endurance for long-term high-pressure underwater service. The cable entry is a submarine grade connector, which provides watertight performance at depths exceeding 200 meters.

## SUBMERSIBLE TILT METER SPECIFICATIONS

Range  $\pm 30^{\circ}$ 

 Resolution
  $(\pm 0.0002^{\circ}) (0.04 \text{ mm/m})^1$  

 Sensor Precision
  $\pm 0.0013^{\circ} (0.02 \text{ mm/m})^1$  

 Sensor Precision
  $\pm 0.0005^{\circ} (0.01 \text{ mm/m})^2$ 

Sensor 24hr Stability ±0.03 mm/m<sup>1</sup>

Sensor 24hr Stability  $\pm 0.01 \text{ mm/m}^2$ 

Sensor MEMS Accelerometer  $\pm 0.016 \text{ mm/m}^{\circ}\text{C} (\pm 0.001^{\circ}/^{\circ}\text{C}), \text{ for } \pm 5^{\circ} \text{ from vertical}$ 

Temperature Dependent Uncertainty  $\pm 0.033 \text{ mm/m/}^{\circ}\text{C} (\pm 0.002^{\circ}/^{\circ}\text{C})$ , for  $\pm 15^{\circ}$  from vertical

Temperature Accuracy  $\pm 0.5 \,^{\circ}\text{C} \, (0 \,^{\circ}\text{C to } 60 \,^{\circ}\text{C})$ Temperature Accuracy  $\pm 1.0 \,^{\circ}\text{C} \, (-40 \,^{\circ}\text{C to } 60 \,^{\circ}\text{C})$ 

Temperature Resolution ±1.0 °C (-40 °C to 60 °C)

Temperature Resolution 0.06 °C

1: 99% Confidence Interval 2: 68% Confidence Interval

SPECIFICATIONS