



The RAS-2-10 combines a dual axis (pitch and roll) inclinometer sensor with a remote readout unit that can simultaneously indicate both angles up to a maximum of $\pm 10^\circ$ with a resolution of 0.01° .

Features

- Dual axis measurement
- Simultaneous readout of both X and Y (pitch and roll) axes
- $\pm 10^\circ$ measurement range
- 0.01° display resolution
- $\pm 0.05^\circ$ accuracy
- Sensor sealed to IP67
- Display sealed to IP65
- IP67 sealed cables and connectors
- Can be supplied with cable lengths up to 100m
- Extremely rugged, designed for use in tough environments. Sensor and display machined from solid aluminium



Product Description

The Sensor Unit : For ruggedness and to ensure good sealing, the housing is machined from a solid aluminium block. The sensor is a high precision MEMS device, which is interfaced through an onboard processor. This stores calibration data and converts the output into a digital format to send to the display unit.

The Cables : The cable from the sensor to the display is a 6mm screened cable. The connectors are military spec IP67 bayonet locking type. The second cable from the display is a two core power cable with a red and black core to connect to the power supply +ve and ground respectively. Both cable lengths should be specified at the time of ordering.

The Display : The display unit is extremely rugged and is machined from a single piece of Aluminium. It has two 20mm LED displays and will simultaneously display the X and Y axis output. The ABS/REL button switches between absolute and relative measurement mode, and the CAL button allows the absolute zero position to be re-calibrated. There are two connectors, one for the sensor unit, and the other to connect to an external power source.

Specifications

Part Number	RAS-2-10
Range	$\pm 10^\circ$ - Dual Axis
Resolution	0.01°
Accuracy	$< \pm 0.05^\circ$ (at 20°C)
Display Refresh	0.5 seconds
Supply Voltage	8-36V (DC)
Operating Current	$< 120\text{mA}$ (@12V)
Cable Length	1-100m (specify with order)
Dimensions	
Sensor	88 x 88 x 45mm (w x d x h)
Display	150 x 126 x 34mm (w x d x h)
Weight	
Sensor	330g
Display	1050g
Operating Temp	-40 to 85°C
Sealing	
Sensor	IP67
Connectors	IP67
Display	IP65