INCLINOMETRO ELETTROLITICO BIASSIALE

The inclinometer utilizes mid-range single axis electrolytic tilt sensors. The use of high accuracy single axis sensors and 16-bit ADCs make this inclinometer ideal for high precision tilt measurement. This inclinometer has superior tolerances and unit to unit performance with an economic design, making it an excellent solution for many markets and applications.

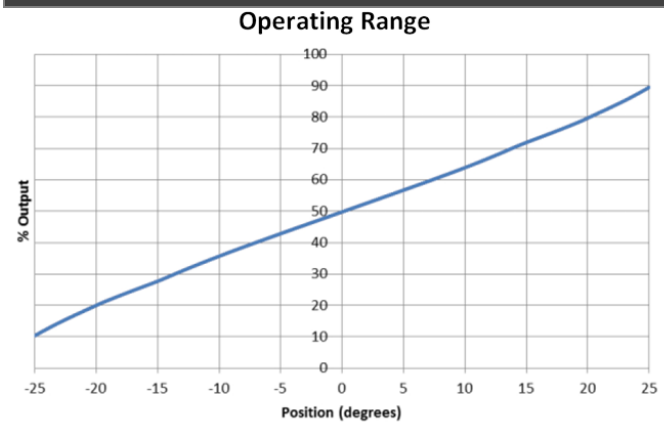
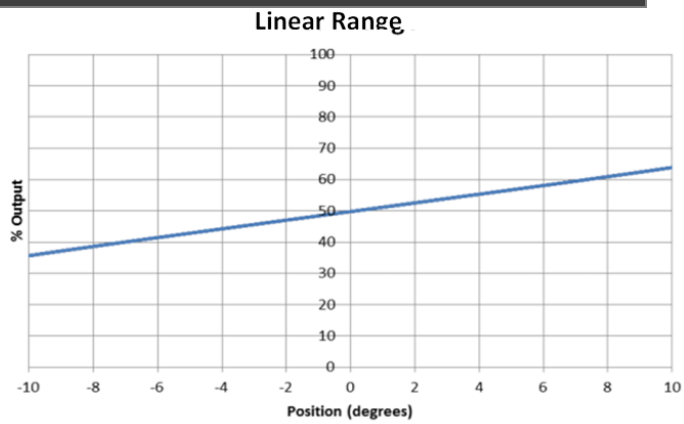
OPERATING SPECIFICATIONS	
Digital interface	MOBUS
Analog output	None
Supply Voltage	5.0 V DC ±0.25 V
Operating Range	±25°
Linear Range	±10°
Axes of Measurement	2
Linearity (% of ±10°)	±1.0%
Repeatability	±0.005°
Resolution	0.001°
Null Offset	±2°
Cross-Axis Sensitivity	0.03% per degree
Long Term Stability/Drift	0.005°
Null Temperature Offset	0.003° per °C
Scale Temperature Offset	0.075% per °C
Operating Temperature	–40°C to 85°C
Storage Temperature	–40°C to 85°C
Time Constant (63.2% of final output)	1 second

PHYSICAL CHARACTERISTICS	
Weight	20 grams
Length	92 mm (3.75")
Width	45 mm (1.78")
Height	17 mm (0.65")

KEY FEATURES AND BENEFITS

- ±0.005° repeatability, 0.001° resolution, very high accuracy
- 0.005° long term drift with an extremely long life
- Minimal drift compared to MEMS devices
- –40°C to 85°C operating temperature for industrial applications
- Live text and video chat technical support

APPLICATIONS

- Geotechnical and structural monitoring
- Construction tools, laser leveling
- Construction machinery and equipment
- Medical devices

OPERATING AND LINEAR RANGE OUTPUT BEHAVIOR