

SMART PRODUCTS

- The hardware is simple, portable, easy to install, and highly integrated.
- Communication, collection and transmission are all-in-one.
- Long battery life and diverse applications.
- All hardware, including those from other manufacturers, can be connected to the GeoSitter Monitoring Platform.

Inclination Monitoring

INCLINO-ROBOT -IRA

Specifications

Model:IRA-30
 Operating Temperature:-10~60°C
 Measuring Range: $\pm 30^\circ$
 Dimension: 295mm \times 275mm \times 233mm
 Resolution: 0.02mm/500mm
 Instrument Weight: 24kg
 Accuracy: 0.25mm/m
 Instrument Wheelbase: 500mm



Features

- Wide applicability: the equipment can be used multiple times for different depths of excavations without the need for factory processing
- Safe and accurate: adheres strictly to inclinometer principles, eliminating errors caused by human factors and greatly improving measurement accuracy
- Customizable measurement frequency: allows for automatic measurements at set intervals, and the measurement frequency can be adjusted as needed
- Simple and convenient: no cable reel required, compact size, easy to install
- Time-saving and labor-saving: utilizes wireless communication, battery power, and solar energy technology, no need for cable laying and protective pipes
- Data diversity: includes a variety of measurement data such as angle, water temperature, battery level, and deformation



INCLINO-ROBOT-IRA-S

Specifications

Model:IRA-30S
 Operating Temperature:-10~60°C
 Measuring Range: $\pm 30^\circ$
 Size: 203mm \times 192mm \times 61mm

Resolution: 0.01mm/500mm
 Instrument Weight: 4kg
 Accuracy: 0.25mm/m | 2.5mm/30m
 Instrument Wheelbase: 500mm



Features

- Wide applicability: the equipment can be used multiple times for different depths of excavations without the need for factory processing
- Safe and accurate: adheres strictly to inclinometer principles, eliminating errors caused by human factors and greatly improving measurement accuracy
- Customizable measurement frequency: allows for automatic measurements at set intervals, and the measurement frequency can be adjusted as needed
- Simple and convenient: no cable reel required, compact size, easy to install
- Time-saving and labor-saving: utilizes wireless communication, battery power, and solar energy technology, no need for cable laying and protective pipes
- Data diversity: includes a variety of measurement data such as angle, water temperature, battery level, and deformation
- Immersion: provides significant advantages, particularly for monitoring underwater or in wet environments



DUAL-AXIS TILT METER

Specifications

Model:GS-DATM05
 Operating Temperature:-40 to 85°C
 Measurement Range: $\pm 15^\circ$ / $\pm 30^\circ$
 Resolution: 0.001°
 Output Signal: 4G / NB

Peak Current: 300 mA
 Measurement Accuracy: 0.005°
 Standby Current: 1.5 to 5 μ A
 Operating Voltage: 2.7 to 3.8V (DC)



Features

- Extended Battery Life: Solar-powered, no external power supply required
- IP68 Protection Level: Features a fully integrated, sealed design achieving an IP68 protection level
- Real-Time Data Collection with Triggered Reporting: Operates with both scheduled data collection and triggered reporting modes, enabling the device to capture and report changes in the monitored object in real-time while consuming minimal power. Suitable for long-term movement studies, monitoring and early warnings, and on-site equipment theft prevention
- Simple On-Site Operation: No wiring required on-site, reducing fieldwork; supports remote parameter configuration and firmware updates.

Applications

Structural monitoring in tilt building, towers, bridge piers, and etc..

