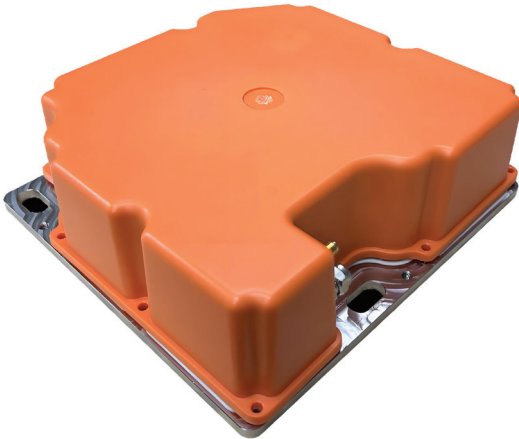


An innovative fully automated in-place geotechnical inclinometer that performs data capture to monitoring platform greatly reducing the need for manual labor.



PRODUCT FEATURES

• Immersion

Provides significant advantages, particularly for monitoring underwater or in wet environment.

• Wide applicability

The equipment can be used multiple times for different depths of excavations without the need for factory processing.

• Accurate & Reliable

Adheres strictly to inclinometer principles, eliminating errors caused by human factors and greatly improving measurement accuracy.

• Adjustable 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

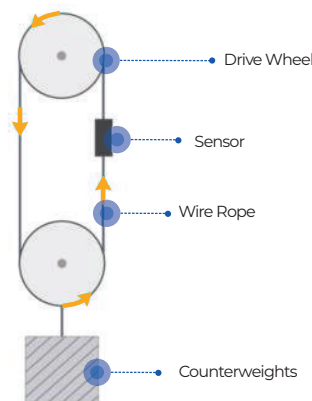
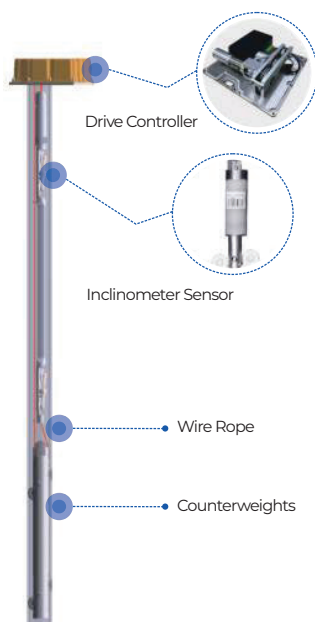
Includes a variety of measurement data such as angle, water temperature, battery level, and deformation.

SPECIFICATIONS

Main Unit	Driver Controller	263 × 192 × 61 mm
Sensor	Sensor	795 × 41 × 40 mm
	Measurement Range	0 ~ ±30° (angle with the vertical)
	Accuracy	0.25 mm/m 2.5 mm/30 m
	Resolution	0.01 mm/500 mm
	Reading Position Error at Each Depth	±1 mm
	Maximum Depth	100 metres
	Waterproofing	2 MPa
	Pulley Space	500 mm
	Diameter	40 mm
	Length	795 mm
	Weight	0.7 kg
Wire Rope	Diameter	1.5 mm
	Tensile Strength	1.5 kN
	Weight	0.9 kg / 200 m
Counterweight	Weight	2.6 kg
Transmission	Configuration	Mobile APP
	Communication	4G
	Continuous Trouble-Free Operating Cycles	3000 times
Others	Applicable Casing Size	External Ø65 mm / Internal 54 mm
	Applicable Casing Size	External Ø70 mm / Internal Ø60 mm
	Power Supply	Lithium Battery / Solar Energy / Wired Power Supply
	Working Environment	-10°C ~ 60°C

PRODUCT SELECTION

Product Name	Product Model	Product Description	
INCLINO-ROBOT-IR4.5	IR4-30S	Applicable depth 0–30 metres	4G Transmission
	IR4-45S	Applicable depth 0–45 metres	4G Transmission
	IR4-60S	Applicable depth 0–60 metres	4G Transmission
	IR4-100S	Applicable depth 0–100 metres	4G Transmission



* The wire rope forms a loop between the drive controller and the counterweights. The inclinometer sensor is fixed on one side of the wire rope, which is driven to move up and down by the drive controller.