

Description

We developed inclinometer SJ-805 to read and control by tablet PC through BLE(Bluetooth low energy) type Bluetooth that can operate inclinometer for long time. We supply tablet PC together to read data and send data as excel file through e-mail and check read data as graph.

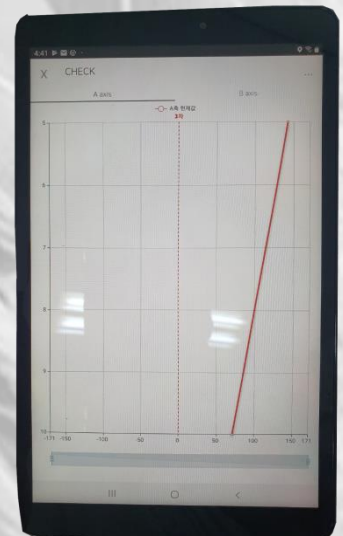
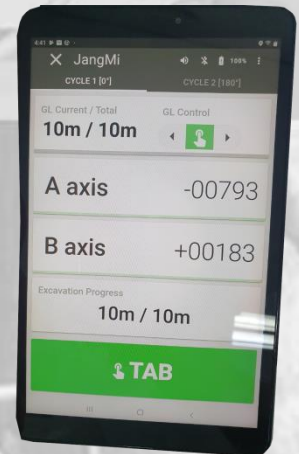


Component

- * Probe
- * Reel Cable & Drum
- * Tablet PC(Galaxy tab A with S pen)
- * Other cables for charging
- * Hand carrying case

Feature

- * MEMS accelerating sensor with high precision is superior to other servo accelerating types in terms of the shock survivability, so that it can minimize the tolerances of the shock caused by vibration and moving in the surrounding field.
- * Quick testing speed and outstanding stability of the data
- * Easy to carry and test due to the wireless communication
- * Compact size and light weight for each components
- * Supply various graphs for result of measurement
- * Available to send by e-mail or save as CVS file
- * Storable hole position by GPS



Specification

Model		SJ-805
Probe	Sensor Type	2 MEMS sensor
	Measurement range	±30° (Dual axis)
	Resolution	0.01mm
	Total System Accuracy	±3.94mm / 30M
	Accuracy	±0.001% FSR
	Formula to obtain distance (m/m)	Distance=Sin θ *Measurement distance (ex: 500 for 5cm distance)
	Dimension	Length: 700mm, Diameter : Ø23, Weight: 1.7kg
	Material	Stainless steel
	Working temp.	-20 ° C ~ 50 ° C
Reel cable	Cable length	50m
	Measurement distance ID	0.5m
	Product's size	Length: 50m*100mm, Diameter : Ø7, Weight: 7kg
	Material	Urethane
	Signal cable	485 COM Digital
Tablet PC (Galaxy tab A with S pen)	Display (Resolution)	1920 X 1200(WU X GA)
	Memory	3 GB(RAM), 32GB(ROM), MicroSD card(Max.512 GB)
	USB	USB 2.0
	Wifi	80.211 a/b/g/n/ac 2.4G+5 GHz, VHT80
	Bluetooth	Bluetooth v5.0)LE up to Mbps)
	Operating system(OS)	Android
	Dimension	201.5 X 122.4 X 8.9mm 321g(weight)
	Battery(mAh, typical)	4200

Tablet PC application

The application interface consists of three main screens:

- Site List:** A list of survey sites. A 'Site Add' dialog box is shown with a 'Site Name' input field.
- Control Screen:** Displays real-time data for a site named 'Hanul'. It shows 'CYCLE 1 [0°]' and 'CYCLE 2 [180°]'. The 'GL Current / Total' is 50m / 50m. The 'A axis' is +01071 and the 'B axis' is +01244. The 'Excavation Progress' is 10m / 50m. A large blue 'START' button is at the bottom.
- Graph Screen:** A graph titled 'INITIAL' showing the relationship between 'A axis' and 'B axis'. The y-axis ranges from 5 to 30, and the x-axis ranges from -400 to 400. A red vertical line is at x=0. A blue curve shows the slope profile.