

Portable digital tiltmeter



Description

Portable digital tiltmeter is a safety diagnostic measuring instrument for measuring the stability of building structure. It is light and easy to equip with tiltmeter sensor, data logging circuit and bluetooth circuit. Download and use the "Tiltmeter Collector" app on your Android or iOS(iPhone) smart device so you do not need any datalogger or jump cable it provides innovative and comfortable usability.

The portable digital tiltmeter has a built-in 2-axis MEMS sensor that can measure $\pm 30^\circ$ and can measure tilt in two directions at one time. Therefore, it is highly utilized compared to existing analog products. The tiltmeter is made lightweight. It is about 50% lighter than ordinary products, so it is very comfortable to measure.

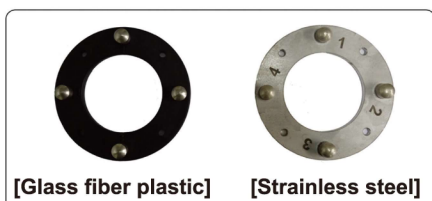
Native apps can be measured and stored via bluetooth communication with your smart device, allowing you to monitor the slope of the structure in real time on the measurement site. It is possible to check at the same time whether the measurement is within the management criteria set through the management criteria setting function and it allows continuous data management. You can check the data by measurement date directly from the graph and angle through the app, so you can quickly respond to changes in the structure in the field.

Applications

- To judge the stability of the structure by measuring the change in the inclination angle
- Monitoring stability in retaining wall and adjacent structures under tunnel excavation and construction for buildings
- Monitoring inclination angle in embankments and concrete dams

Ancillary equipments

- Glass fiber plastic tilt plate
- Stainless steel tilt plate
- Protective case for tilt plate
- Rapid epoxy
- PDA



[Glass fiber plastic]

[Stainless steel]

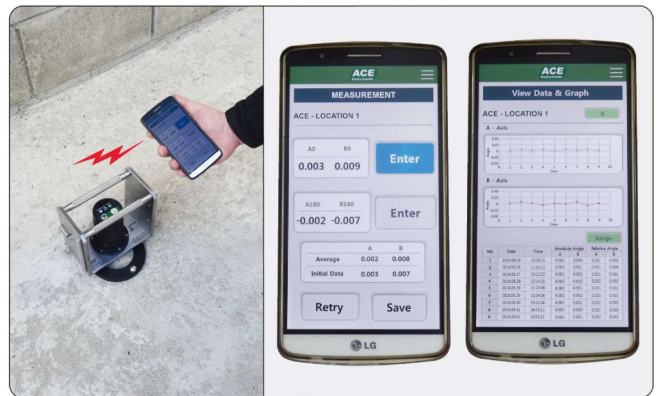
[Tilt Plate]



[PDA / Android OS]

Features

- Excellent in digital responsiveness
- Built-in high reliability, high precision accelerometer
- Economical because it can measure multiple points with one portable digital tiltmeter
- Lightweight and comfortable to carry and easy to carry
- No data logger required
- Simplified measurement and on-site monitoring through native app
- Management criteria setting function



[Site measurement and data by native app]

Specification

Model	5411		
Applied sensor	2-MEMS sensor		
Range	$\pm 30^\circ$		
Resolution	0.0005° (2arc seconds)		
Accuracy	± 10 arc seconds		
Nonlinearity	0.02% FSR / $\pm 10^\circ$		
Repeatability	$\pm 0.003^\circ$		
Shock coefficient	2000g		
Operating temp	-20~70°C		
Dimensions	168×150×88mm		
Weight	2.84kg		
Materials	Stainless steel, Anodizing aluminum		
Convenience	Power, Bluetooth, Charge		
Status display	ON/OFF Switch Auto off when non-connecting bluetooth Charge connector		
Operating time	Cont' 17 Hr		
Battery	Lithumpolymer 7.2V		
Operating application	Application	Tiltmeter collector	
	Function	Data storage View data & graph Import data Send to e-mail	
	Device	Android, iOS(iPhone) OS Smartphone or device	
Tilt plate	Mounting	Epoxy bonding or Anchor bolt 4 positions	
	Dimensions	Ø120×Ø70×21mm	
	Weight	0.13kg	0.31kg
	Material	Nylon #66+GF 50%	STS304