# **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 smart device, so you do not need any datalogger or jump cable and it provides innovative and comfortable usability.

The portable digital tiltmeter has a built-in 2-axis MEMS inclined acceleration 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 inclinometer 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
- Protective case for tilt plate

[Glass fiber plastic]

Stainless steel tilt plate

Rapid epoxy







PDA

[Tilt Plate]

Website: www.aceinstrument.com / www.aceco.kr

[PDA / Android OS]

## Features <sub>1</sub>

- 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
- Management criteria setting function



[Site measurement and data by native app]

Specification <sub>I</sub>	
Model	5

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Model	5411			
Applied sensor	2-MEMS sensor			
Range	±30°			
Resolution	0.0005° (2arc seconds)			
Accuracy	±10arc seconds			
Nonlinearity	0.02% FSR / ±10°			
Repeatability	±0.003°			
Shock coefficient	2000g -20~70℃			
Operating temp				
Dimensions	168×150×88mm			
Weight	2.84kg			
Materials	Stainless st	Stainless steel, Anodizing aluminum		
Convenience	Power, Bluetooth, Charge			
Status display	ON/OFF Switch Auto off when non-connecting bluetooth Charge connector Cont' 17 Hr			
Operating time				
Battery	Lithumpolymer 7.2V			
Operating	Application	Tiltmeter colle	ector	
application	Function	Data storage View data & graph Import data Send to e-mail		
	Device Android 4.3 or later OS Smartphone or device			
Tilt plate	Mounting	Epoxy bonding or Anchor bolt 4 positions		
	Dimensions	Ø120ר70×21mm		
	Weight	0.13kg	0.31kg	
	Material	Nylon #66+GF 50%	STS304	

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