



Sanlien Technology Corp.

# TILTdot



Model: TD-1001

Wireless Tiltmeter

Be the frontier of environmental monitoring

[www.sanlien.com](http://www.sanlien.com)

## Overview

TILTdot - the ultimate electronic dual-axis wireless tiltmeter with advanced features and reliable performance. TILTdot is equipped with LTE-M and NB-IoT wireless transmission technologies and temperature measurement capabilities, making it an ideal choice for various industries, including site and civil engineering, water conservancy construction, bridge engineering, slope safety for buildings, structures, and retaining walls.

Designed with a robust and waterproof enclosure, TILTdot ensures accurate and continuous data collection even in harsh environments. With its low-power 18650 Li-ion rechargeable battery, TILTdot can provide long-term measurement and instant data upload. Moreover, TILTdot can store more than 1 million recorded data with its built-in 32 GB Micro SD card and back up your data on dot cloud service.



## Key Features



LTE-M and NB-IoT wireless transmission  
Real-time monitoring enabled via LTE-M / NB-IoT and dot cloud integration.



MQTT Protocol  
Supports MQTT for versatile data acquisition and integration.



Low-power Consumption  
Powered by two 18650 Li-ion batteries, TILTdot operates up to 3 months (RSSI < 15) to 6 months (RSSI ≥ 15) with hourly measurements.



Real-time Cloud Monitoring  
Recorded data can be uploaded to cloud service for 24-hour real-time monitoring through simple set-ups on the SD card.

## Applications

- ✓ Tilt Monitoring for Building Structures
- ✓ Tilt Monitoring for Subway, High Speed Rail, and Bridges Piers
- ✓ Structural Inclination Monitoring of Subway, High-Speed Rail and Tunnels
- ✓ Tilt Monitoring for Retaining Walls
- ✓ Slope Surface Displacement Monitoring

## Best Suited



New Construction for Site and Civil Engineering



Water Conservancy Construction



Bridge Engineering



Slope Safety

## Specifications

Sensor Type	MEMS Accelerometer
Axial Module	Biaxial
Measuring Range	±90°
Measurement Accuracy	±0.01°, calibrated to ±30°
Resolution	0.0001°
Operating Temperature	-30 °C to 85 °C
LPWAN	LTE-M / NB-IoT
Network Protocol	MQTT
Storage	32GB Micro SD Card
Power Supply	18650 Li-ion Battery x2 (Supports 5-18 Vdc charging via solar panel or external source)
Dimension (L x W x H)	100 x 100 x 60 mm (excluding antenna)

\*All price, feature and specification are subject to change without prior notice.

## Be the frontier of environmental monitoring

Sanlien Technology is committed to making environments safe for humans. Hence, we insist on continuing R&D investment, perfecting our manufacture of monitoring systems, and expanding into Smart City and IoT monitoring. With more than 1,000 local and international customers, Sanlien is trusted by global customers with high standards. By working with renowned agents around the world, we ensure optimal performance and reliability of our services. With 50 years profound experience in Taiwan, Sanlien becomes the most exceptional provider measuring technologies in the Asia-Pacific region. Sanlien has conceptualized the idea of being a global partner into a three-in-one strategy: long-term deployment of globalization, integration of local resources, and localized operations. We shall march on step by step with the stamina for running a marathon.

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