



Sanlien Technology Corp.

TILTdot



Wireless Tiltmeter

Be the frontier of environmental monitoring

www.sanlien.com

Overview

TILTdot- the ultimate electronic dual-axis wireless tiltmeter with advanced features and reliable performance. TILTdot is equipped with NB-IoT wireless transmission 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



NB-IoT Wireless Transmission

Uploading data to the cloud by complying with latest NB-IoT wireless transmission technology for real-time monitoring



MQTT Protocol

Complied with MQTT protocol, it is easy to receive and integrate various data



Low-power Consumption

Powered by two 18650 Li-ion rechargeable battery, it is able to be stand-alone for at least 3 months if RSSI <15; 6 months if RSSI ≥15. (Based on measuring once per hour)



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	NB-IoT
Network Protocol	MQTT
Storage	32GB Micro SD Card
Power Supply	18650 Li-ion Battery x2 (Provides 5-18 Vdc battery charging capability, compatible with solar panels or external power source)
Dimension (L x W x H)	100 x 100 x 60 mm (Antenna height not included)

*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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