



Sanlien Technology Corp.

RAINdot



Rainfall Datalogger

Be the frontier of environmental monitoring

www.sanlien.com

Overview

RAINdot is a rainfall datalogger that utilizes the latest NB-IoT wireless transmission technology to measure the pulse count signal from the rain gauge. This datalogger features a sturdy, waterproof enclosure and a low power consumption design. It is powered by two 18650 lithium-ion batteries and offers long-term measurement and data upload to the dot cloud platform, with an additional 5-18 VDC charging function. Furthermore, the built-in 32 GB Micro SD card is capable of storing over 1 million data entries. RAINdot is also compatible with various rain gauge devices, enhancing its versatility for different applications.

RAINdot is suitable for rainfall monitoring in urban civil engineering projects, river and water conservancy projects, bridge engineering, and slope safety monitoring.



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 8 months if RSSI <15; 16 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

- ✓ RAINdot provides comprehensive rainfall monitoring across various scenarios: assessing landslide risks and evacuations, predicting slope failures, monitoring structural integrity for timely maintenance in highway projects, conservancy efforts, bridge safety, and urban flood-prone areas.

Best Suited



Highway Slope



River and Water Conservancy



Bridge Safety



Landslide-Prone Areas



Urban Flooding

Specifications

Signal Type	Pulse Count
Channel	1
Measuring Range	0-2 Hz
Accuracy	±1 Pulse
LPWAN	NB-IoT
Network Protocol	MQTT
Storage	32 GB 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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