

Datasheet

RAINdot Rainfall Datalogger



DESCRIPTION

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.

Best Suited



Highway Slope



River and Water Conservancy



Bridge Safety



Landslide-Prone Areas



Urban Flooding

FEATURES

- ✓ NB-IoT wireless transmission
- ✓ MQTT Protocol
- ✓ Low-Power Consumption
- ✓ Real-time Cloud Monitoring

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.

TECHNICAL SPECIFICATIONS

	VWdot
Measurement Type	Vibrating Wire Sensor
Measuring Range	450 - 6000 Hz
Accuracy	± 0.01 % @ 3000 Hz
Channel	16
LPWAN	LTE-M / NB-IoT
Network Protocol	MQTT
Storage	32 GB Micro SD Card (expandable)
Power Supply	18650 Li-ion rechargeable battery x5 (Supports 5-25 Vdc charging via solar panel or external source)
Power Consumption	6 months (RSSI <15) ; 12 months (RSSI ≥15) one measurement per hour
Temperature Type	Thermistor (resolution 0.1 °C)
Dimension (L x W x H)	340 x 236 x 95.5 mm (excluding antenna)

**All prices, features, and specifications are subject to change without prior notice.*



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