

Adot4



Model: AD-4001

Analog Datalogger

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Introduction

Adot4 is an analog datalogger with both LTE-M and NB-IoT wireless transmission technologies, which is designed to meet the needs of geotechnical engineering applications. It is a reliable choice for automated safety monitoring in civil engineering, water conservancy, construction and other fields. This datalogger can be used to measure analog instrument signals such as voltage, current, resistance and various thermometers. It has a sturdy waterproof outer case and low power consumption design to ensure accurate and continuous data collection even in harsh environments.

The Adot4 analog data logger is equipped with a built-in 32GB Micro SD card, providing sufficient storage capacity for over one million data records, making data analysis during long-term monitoring more comprehensive and ensuring that no critical data is missed.

This datalogger is renowned for its excellent cost performance and reliability and has undergone rigorous testing and quality verification to deliver accurate and consistent measurement.



Features



Low-Power Consumption

Powered by four 18650 Li-ion batteries, Adot4 is able to operate for at least 6 months when RSSI is < 15 and for 12 months when RSSI is ≥ 15 (with one measurement per hour).



MQTT Protocol

Supporting the MQTT protocol, Adot4 allows for the acquisition and integration of various types of data.



LTE-M and NB-IoT wireless transmission

Using the latest LTE-M and NB-IoT technology, Adot4 can upload data to the "dot" cloud server, achieving a real-time monitoring advantage.



Simple Operation

Measuring data can be uploaded to the "dot" cloud service through simple setups on the Micro SD card.

Applications

- ✓ **Tilt monitoring** – MEMS Tiltmeters
- ✓ **Water level monitoring** – 4-20 mA Transducers
- ✓ **Load monitoring** – Full Wheatstone Bridge Load Cells
- ✓ **Displacement monitoring** – Potentiometers
- ✓ **Crack monitoring** – Potentiometers
- ✓ **Temperature monitoring** – RTD / PT100 / 3K thermistors measurement

Best Suited



Construction Site and Civil Engineering Project



Water Conservancy Project



Bridge Engineering



Slope Safety

Specifications

Measurement Type	Analog sensor
ADC	24-bit resolution
Channel	4
Differential Voltage measurement	± 10 V
Single-Ended Voltage measurement	0-5 V
Current Loop measurement	4-20 mA
Wheatstone Bridge measurement	Full Wheatstone Bridge
Temperature measurement	RTD / PT100 / 3K Thermistors
Power Output	5 V/130 mA or 12 V/130 mA
LPWAN	LTE-M / NB-IoT
Network Protocol	MQTT
Storage	32 GB Micro SD Card (expandable)
Power Supply	18650 Li-ion battery x4 (Provides 5-18 Vdc battery charging function, can be connected to solar panel or external power supply)
Power Consumption	6 months (RSSI < 15) ; 12 months (RSSI ≥ 15) one measurement per hour
Dimension (L x W x H)	160 x 160 x 70 mm (Antenna height not included)

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

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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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