Sanlien Technology Corp.

Adot4

Model: AD-4001

Analog Datalogger

Be the frontier of environmental monitoring

www.sanlien.com

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 datalogger 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 operates up to 6 months (RSSI < 15) to 12 months (RSSI ≥ 15) with hourly measurements.

MQTT Protocol

Supports MQTT for versatile data acquisition and integration.

LTE-M and NB-IoT wireless transmission

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

Simple Operation

Data uploads to the dot cloud via simple Micro SD card setup.

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 (Supports 5–18 Vdc charging via solar panel or external source)
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 (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 glocal 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.

sanlien Sanlien Technology Corp.

+886-2-2708-1730 | www.sanlien.com | sales@sanlien.com