DEAWARE

DW IoT-MODQ

With IP68 enclosures

FEATURES

- High performance with advanced security features
- Work with various measuring instruments
- High-Speed 16-bit ADC (4-20mA, 0-10V)
- Rich input/output options
- High-speed pulse counting and encoding
- Remote firmware updates (FOTA)
- Stores up to 1,000,000 records or more
- Suitable for outdoor installation in harsh environments
- (LoraWAN) AS923 (10Km on rural area)
- (4G LTE) Compatible with HTTPS, MQTTS and CoAP, Wide Network Coverage, Support LTE

THE REVOLUTION FOR SMART SENSOR ENVIRONMENT

OUR DW IOT-MODQ WITH IP68 ENCLOSURES IS AN EXCELLENT TOOL FOR RECORDING AND MONITORING DATA. WITH CUTTING-EDGE TECHNOLOGY, IT IS DESIGNED FOR FIELD USE, ENSURING DURABILITY. THE INTELLIGENT SOFTWARE CAN CONNECT TO MEASURING INSTRUMENTS FROM VARIOUS BRANDS AND IS CAPABLE OF INTERNET CONNECTIVITY. IT ALLOWS FOR REAL-TIME DATA MONITORING OR DATA ACCUMULATION FOR EFFECTIVE ANALYSIS, MAKING DECISION-MAKING AND PLANNING ALWAYS EASY!

Design for durability and industrial application

We choose electronic components that withstand temperatures up to 70ºC, with protective circuits against various connections, including lighting protection and adverse environmental conditions.

Multi Sensor Collection

For multi-sensor reading using using RS485 , Pulse Counter and Analog interface together allows for flexible data collection from various sensors

RS485 Interface

Allows for robust and long-distance wired communication, commonly used in industrial applications.

Pulse Counter

Integrated pulse counting functionality for precise monitoring of pulse-based sensors, such as flow meters or energy meters.

Analog / Digital Input Support

Supports 16-bit 0-10 Volt and 4-20 mA signals for versatile sensor integration

Data Logging and Storage

Features extensive data logging capabilities

with support for various sensor inputs, ensuring accurate and comprehensive data collection.

Rugged and Durable

IP68 Rated Enclosure: Ensures complete protection against dust and water ingress, making it suitable for harsh environmental conditions and prolonged outdoor use.

Sample **Application**

Water management data logger
Monitors and records water data to help manage and reduce water wastage. Provides real-time data and detailed reports for effective water management

Environment Sensor Monitoring
Collects and analyzes environmental data such as temperature, humidity, and air quality to ensure optimal conditions. Integrates with various sensors to provide comprehensive environmental monitoring.

CHARACTERISTICS : (คุณลักษณะ)

CPU	Ultra-low power with High-Performance 32 bit -MCU
Operating System	RTOS (Real Time Operating System)
RTC	Real time clock with buffer and backup battery
Display	(Optional) built-in OLED display Main display : LED
Internal Sensor	Internal temperature measurement
Input/Output	4 Digital inputs
	4 analog 0-10 VDC , 4-20mA with configuration alarm thresholds and hysteresis Intelligent data logger (16-bit Resolution) I2C, RS485
Storage	Micro SD Card 16GB
	External RAM 2 Mbit
	EEPROM 16 Kbit
Software	C/C++ and Python Conditions for verification and data transmission can be set via programmable settings
	User friendly communication and configuration software
Environmental	Temperature Range : 0 - 70 ºC
	Humidity Range : 5% - 95% Rh

CONNECTIVITY :

Communication (Order the model with 4G or LoRAWAN)	4G LTE / 3G (IoT/M2M-optimized) LTE FDD : B1/B3/B7/B8/B20/B28 WCDMA : B1/B8 GSM/EDGE : B3/B8 or LoRAWAN : AS923
	USB-C port for local configuration Data upload interval configurable Data Upload condition configurable
	Remote firmware upgrade
Local Network	1 x RS-485 Interface (Modbus RTU Master / Slave)
External Connector	IP67 External Connector or IP68 Cable gland
Safety Standard	EN 62311:2008

POWER SUPPLY :

	Additional power input 9-24 VDC 220 Volt 50Hz adaptor included

ENCLOSURE : (บรรจุภัณฑ์)

Protection	การป้องกันระดับ IP68, Material : Aluminium , Front Panel : ABS
Mounting	Wall mounting or Din rail

IP67 External Connector

IP68 Cable glands

Back Bracket Installation Choice