WIONIQ™



IOT MULTISENSOR IM915

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IM915

Versatile IoT logger for water level and surface water quality data logging and monitoring

If you are looking for on-line water quality monitoring or surface water in general, the IoT Multi-Logger is the product to have. It has been specifically designed to communicate with sensors from various suppliers and transmits the sensor data into a secure domain within Wioniq IQ - Wioniq's Software as a Service (SaaS) platform for advanced WEBscada and WEBmes applications.

The IoT Multilogger seamlessly integrates with a wide array of industry-standard sensors i.e. water level, oxygen, temperature, turbidity, conductivity, pH, redox, moisture, etc. The communication between sensor and IM915 is based on the Modbus RTU protocol using RS485 transmission.

The battery powered unit activates the sensor at adjustable intervals, receives its data and stores the data into its memory. In order to optimize the battery life to max. 5 years, data is sent to Wioniq IQ server once a day. Its possible to change to multiple times per day, but at the cost of battery life reduce.

With our Smart Technology you get the best solution for your application.

Smart diagnostics in sewage applications.

Within the Wioniq IQ platform the measured data is presented in a process view and alarms are sent should the measurement exceed a certain threshold.

Applications

Remote monitoring of water level and water quality monitoring for municipalities and waterboards.

Features and benefits

- Integrated NB-IoT/LTE-M communication for secure and reliable wireless data transmission within Europe and beyond.
- Extended battery life - up to 5 years of operation - reduces operation costs significantly.
- Built-in GPS position detection for tracking of non-stationary equipment.
- Engineered for easy installation for above and below ground applications.
- Two M12 connections to sensor for quick and plug-and-play installation.
- IP68 rated enclosure for trouble free operation in flood-prone environments, offering maximum durability.
- Internal Real-Time-Clock (RTC) ensures accurate time-stamping for alarms and process data.
- Dual RS485 communication ports with Modbus RTU protocol support a wide range of third-party sensors.
- External antenna option for locations with challenging signal conditions.

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Specifications

System memory

10.000 samples

Data transmission

NB-IoT, LTE Cat M1

Transmission bands:
3, 8, 20

4G micro-SIM

Connections

- 2 x RS485 connection
- 1 x External 4G antenna (standard internal antenna)

Supply voltage

10 to 30 V DC

Real Time Clock (RTC)

Certifications

CE

RoHS - Restriction of the use of certain Hazardous Substances

WEEE - Waste of Electrical and Electronic Equipment

RED - Radio Equipment Directive

EMC Directive 2014/30/EU

Power

2 D-cell batteries type
3.6V Li-SOCl2
(26,000 mAh)

optional external power:
10 ... 30 V DC

Weight

Approximately 450 g

Sensor types

Water level

Oxygen

Temperature

Turbidity

Conductivity

pH

Redox

Moisture

Dimensions

Height:
225 mm (8.9")

Diameter:
65 mm (2.6")

Temperature

Operating:
-10 ... 70 °C

Storage:
-20 ... 80 °C

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