WIONIQ™

STORMWATER MANAGEMENT

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Stormwater Management

Intelligent infiltration monitoring with AI generated precipitation data

Do you know how efficient your infiltration system is operating? With Wioniq's Stormwater Management solution you have online insights of its performance. The systems is equipped with a Logic Controller and sensors to measure level, humidity, temperature and rainfall. All collected data is seamlessly transmitted via an edge controller to the Wioniq IQ cloud platform, where it's transformed into intuitive process views, trend graphs, and actionable insights. Alarms notifications inform you when the system detects critical events i.e. a full infiltration or low infiltration rate.

Its intelligence comes from a meteo connection for life precipitation data. Using the dimensions of the infiltration buffer and the connected surface, the rain precipitation predicts the fill level 3 days in advance. You'll know ahead of time whether flooding is likely to happen, giving you the opportunity to act before it happens.

To prevent flooding, it is even possible to operate pumps or valves to reduce the water level in advance. This way you will avoid stress on the sewage system when it is already operating at maximum capacity.

Applications

Remote monitoring and control of infiltration systems and water buffers, regardless of their size, shape, or complexity.

Features and benefits

- Fully integrated End-to-End solution designed to monitor, control and optimize stormwater applications.
- Internal 4G modem for reliable and secure data transmission within Europe (America version available).
- Simple installation of entire system. All sensors are prewired/connected. Just provide the main power (240 V ac) and the system is operational.
- Cloud based remote monitoring with the powerful Wioniq IQ SaaS interface.
- Internal Real-Time-Clock (RTC) guarantees accurate time-stamped data logging and alarm handling.
- Automate pump or valve operation to prevent flooding and ease the load on your sewage infrastructure.
- Continuous rain precipitation data enables predicted fill level calculations and allows you to make smarter decisions for irrigation applications.
- Reduce your OPEX by proactively cleaning your infiltration system only when needed, based on reduced infiltration rate detection.

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

Smart diagnostics in sewage applications.

WIONIQ

Specifications

System specification

Monitoring controller including 4G modem

Hydrostatic level sensor

Humidity sensor (optional)

Temperature sensor (optional)

Rain gauge (optional)

Data transmission

4G SIM

Connections

1 x External 4G antenna

Certifications

CE

EMC Directive 2014/30/EU

RoHS - Restriction of the use of certain Hazardous Substances

Power

Mains power:
240 V AC single phase

Current consumption:
<200 W

Weight

Approximately 3.1 Kg depending on configuration

Real Time Clock (RTC)

Cabinet dimensions

Height:
400 mm (15.8")

Width:
300 mm (11.8")

Depth:
150 mm (5.9")

Temperature

Operating:
-10 ... 60 °C

Storage:
-20 ... 70 °C

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