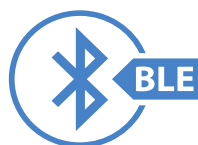


inVentia

IIoT solutions for water/wastewater sector



Get presentation
with case studies
listed below



The main areas of application for telemetry and location modules:

- water and sewage systems management
- industrial automation
- heat and professional power industry
- logistics and storage of goods
- manufacturing
- facilities protection
- transport
- environment protection
- agriculture and horticulture

Example applications:

- monitoring and control of pumping stations
- control and monitoring of sewage treatment works
- monitoring of flow and pressure in water supply networks
- monitoring of drinking water and rainwater tanks and retention systems
- location of equipment and resources used in the water and sewerage sector
- monitoring of water supply network zones
- flood and inundation risk warning systems
- monitoring of rainwater retention tanks
- detection of leaks in pipelines
- measurement of water levels in wells, intakes, rivers and reservoirs
- remote meter reading for utilities (water, heating, gas, electricity)
- measuring the fill level of tanks
- remote monitoring of industrial automation systems
- data collection from sensors and measuring devices in district heating systems with GSM/Ethernet transmission, linked to water and sewerage systems
- remote monitoring and data collection for SCADA systems and cloud-based analytics
- contactless temperature monitoring of components in electrical switchgear
- monitoring of parameters and control of cathodic protection systems for pipelines, tanks and other metal structures buried in the ground or submerged in water



Inventia's offer stands out:

- A high level of cybersecurity**, confirmed by compliance with the **ISO/IEC 27001** standard, encompassing **data transmission encryption using the AES-128 algorithm**, **management of access to data, configurations and software on Inventia devices**, as well as **software updates**
- The ability to remotely configure, programme control logic and update firmware** on installed devices via 2G/4G (Cat. 1, Cat. M, NB-IoT, LTE450)
- System flexibility**, thanks to the use of open standards (MQTT, Modbus TCP, Modbus RTU)
- Compatibility with standard devices (PLCs, I/O modules, measuring devices)** supporting standard communication protocols (e.g. Modbus RTU/TCP, Gazmodem, M-BUS, NMEA, Genibus, IEC 60870-5-140)
- Compatibility with any visualisation system**, thanks to data sharing via a **standard OPC interface (OPC DA, OPC UA)**
- Easy integration with the User's databases and IT environment**, thanks to data being made available via the **ODBC interface and CSV files**
- Minimal running costs** (remote management and updates, event-triggered transmission, mirroring of external device statuses, advanced diagnostics, scalability)
- The ability to integrate various telemetry devices into a single, cohesive system**, in two variants: **the DataPortal cloud service or a standalone solution running on the customer's machine – MTDataProvider**
- A Polish manufacturer offering full technical support and after-sales service provided in Poland**. Thanks to its **in-house R&D department**, Inventia offers **turnkey solutions**, as well as **OEM projects** and the **customisation of hardware and software to meet specific client requirements**, covering both the hardware and system layers



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