



ADD SMART WATER PREPAYMENT SOLUTION



The ADD Smart Water Prepayment Solution can be a separate water metering system or a part of AMI system within water/heat/gas/electricity complete solution.

The Solution offers a variety of communication technologies to read data locally and remotely, by schedule or on demand. The Solution provides flexible reporting, export to third party systems and features a user-friendly interface.

FEATURES

Data collection and processing



- Remote data exchange between the SIMS and end-point devices;
- Automatic data acquisition by schedule or on demand;
- Meter data collection: interval data (hourly, daily), billing data (monthly);
- Storage of metering data, Event Logs, configuration settings;
- Generating of flexible reports;
- Graphical visualization of metering data.

Components



- Water meters;
- Shut-off valve;
- LoRaWAN Gateway;
- Customer Interface Unit;
- Smart metering system for remote reading and control.

Communication technologies



- BLE 5.0 to control ADD shut-off valve via the associated meter;
- LoRa to communicate with end-devices;
- 3GPP/Ethernet for WAN connection.

Prepayment



- STS standard protocol IEC62055-41, 51 compliant;
- Prepayment tokens are sent via BLE using smart phone or Customer Interface Unit.

Events & Alarms Handling



- Control of alarm situations and fraud attempts:
 - Magnetic field detection;
 - Valve cover breaking.

Integration



- Integration with third-party systems, such as MDMS, Billing system, Customer Relationship Management (CRM), Customer Information Service (CIS);
- Web-services support;
- Integration based on files export/import.

DLMS/COSEM support



- Standard data model;
- Standard communication protocols;
- Interoperability.

Security



- Enables protection of the meter and its components from various types of information fraud.
- Provides security between all components of the Solution to ensure safe data transmission and data access.

User-friendly Interface



- Intuitive graphical user interface with standard Windows view;
- English as default language. Possibility to change user interface language according to customer requirements.

System Requirements



- MS Windows Server 2008 R2 – 2016 R2 Standard/Enterprise 32 or 64-bit operating system or later;
- MS SQL Server 2008 R2 - 2016 Standard/Enterprise or later.

