

ADD GRUP SMART WATER SOLUTION



Smart Water meter



Key features:



High accuracy meter reliable in the long run exploitation, not exposed to wear due to impure water



Low start flow down to 2 l/hour provides measurement of very low flows. The flow velocity does not influence the meter accuracy



No moving parts ensures the same accuracy (class 2) during the entire lifetime



Non-revenue water reduction due to constant monitoring of water consumption and leakage control



Proven ultrasonic technology guarantees accurate water measurement

Shut-off valve



Main functions include:

- Shutting off water supply in case of leaks/bursts;
- BLE 5.0 to control water supply via the associated water meter.
- Allows water availability reduction due to various operation scenario. Modulating the water flow: 10, 50, 100 %
- Stopping the water flow for a specified period of time

Communications

Flexible communication options:

- ✓ WAN technologies for data collection, remote monitoring and control (LoRa/ NB IoT/ Wireless M-Bus)
- ✓ Bluetooth Low Energy (BLE) for local communication with flow control valve; meter software application and meter firmware update.
- ✓ LoRaWAN provides communication at long distances with very low battery usage



Smart Watering System

1

Reading current data, alarms and events remotely, by schedule or on demand (via LoRa network once per 4 hours by default).

2

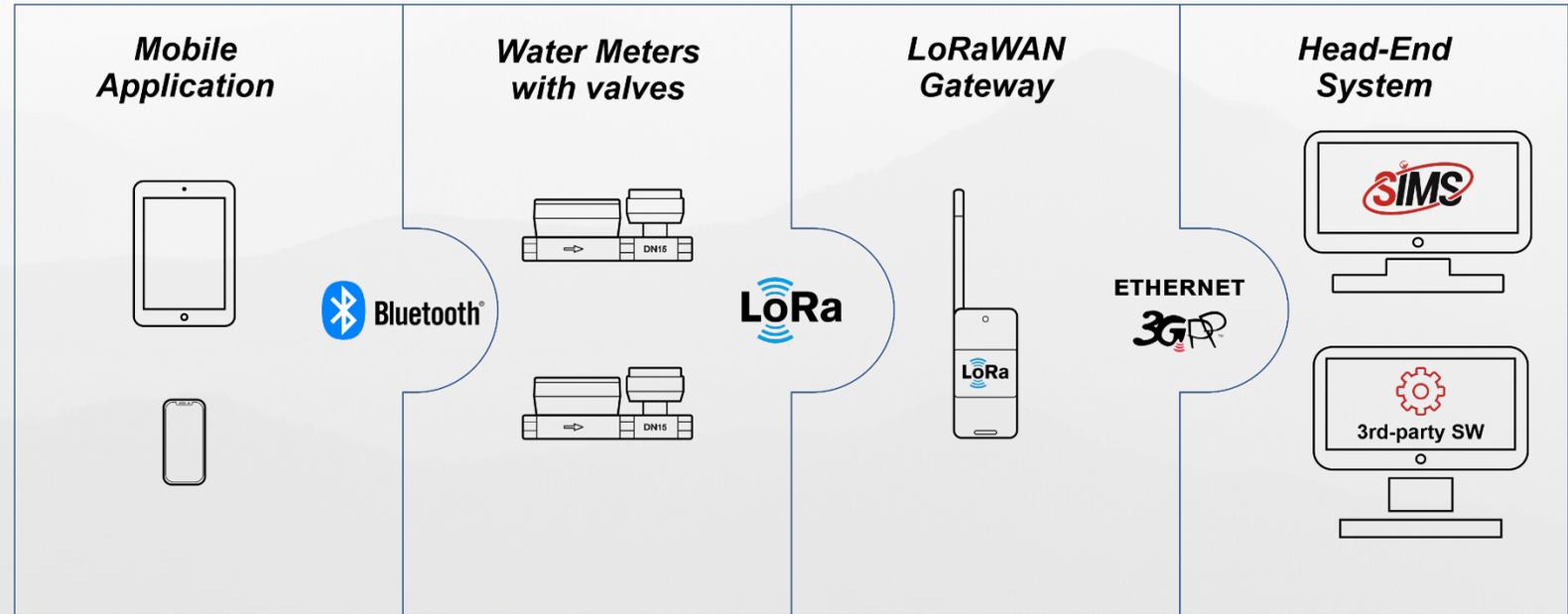
Local mobile application for Utility personnel access via BLE for service purposes (meter state remote testing, data and alarms reading etc.)

3

Flexible reporting, export to third party systems. User-friendly interface.

4

Events & Alarms Handling. Control of alarm situations and fraud attempts (magnetic field detection; cover breaking).



Alarms and Events



Timely emergency response to alarm situations.



Saving events in the event log with the relevant time stamp.



Special symbols on the meter display:



It is displayed in case of **TAMPER** event (attempts to break meter cover, magnetic field detection, etc.).



Displayed when a **LOWBAT** alarm occurs (low battery).



Appears when **DRY** alarm (water meter is not filled with water).



Displayed in case of **LEAK** alarm (possible water leakage) when water flows continuously for more than 24 hours.



BURST alarm (possible breakthrough pipe) when the water flow is constantly high for more than 30 minutes.



It is displayed when the threshold is reached in prepay-mode (small credit, you need to replenish the account).



It is displayed when the water supply valve is closed. (For example, due to non-payment).



Displayed in case **REVERSE** water flow is detected.

Use case1



Water leakage

Unnoticed leaks

Water leaks can waste water 24 hours a day, 7 days a week and cause considerable losses of money.

The majority of leaks occur in the bathroom and in the toilet. The toilet is a common source of unnoticed leaks. Undetected, hundreds of liters of water can be wasted each day.

LEAK alarm arises when water flows more than 24 hours without interruption. The corresponding symbol  is presented on the water meter display.

In this case the possibility to detect leakages allows water interruption via shut-off valve.



Use case2



Water burst

Back from vacation



Discovering water damage in your home after returning from vacation is a rude welcome.

With ADDRA system, you can avoid stresses and keep your home dry and happy while you're away.

Burst alarm is sent to the Central System while the System sends a command to interrupt water via the valve.



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