

# Smart Water Solutions

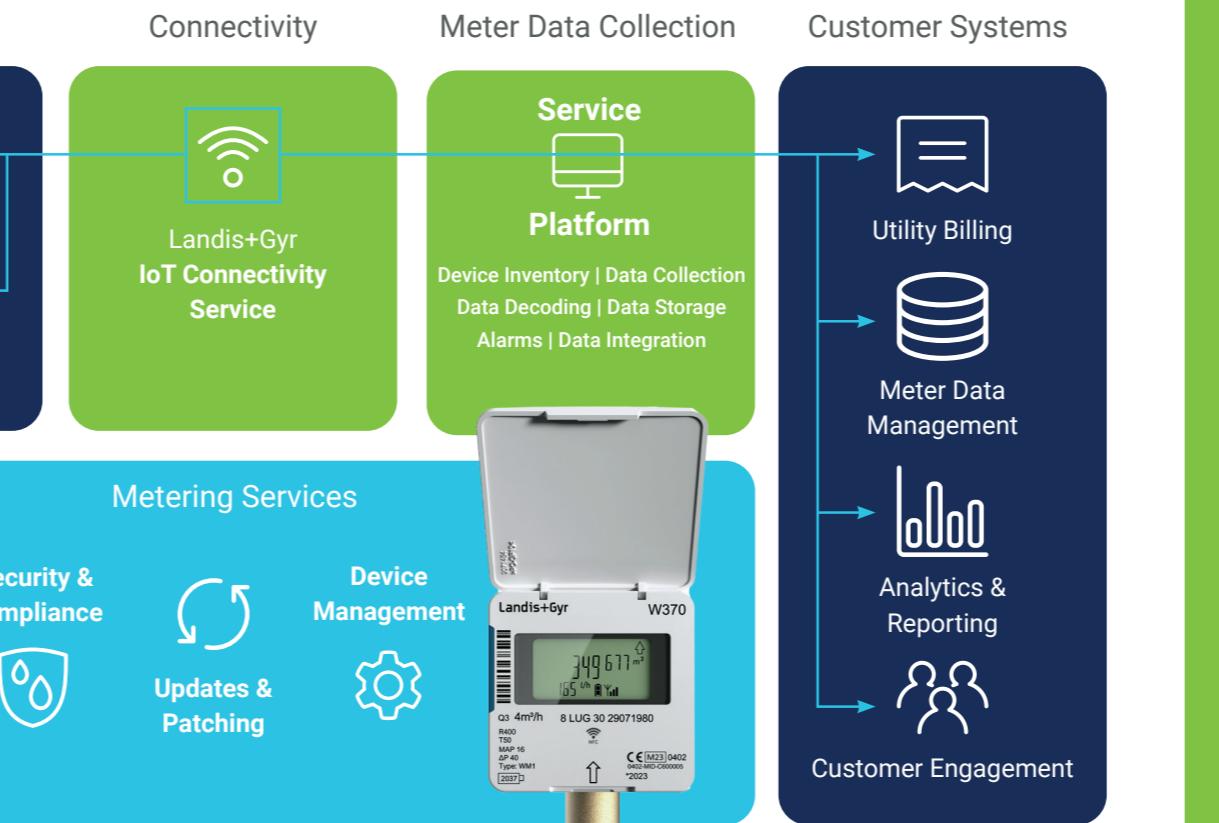
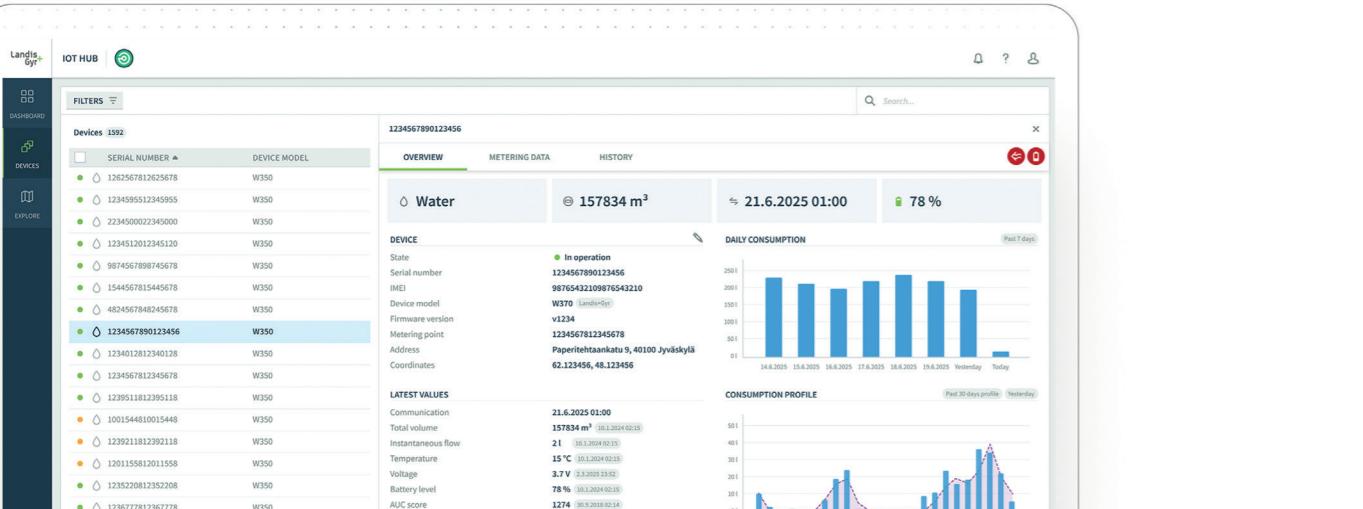
One platform, full control –  
Connectivity, Meter Reading and Data  
Management in a single End-to-End service

## The easy way of managing water metering

Water management becomes simpler and more efficient with Landis+Gyr Smart Water Solutions. The service provides a fully integrated, end-to-end setup that combines connectivity, data handling, and device management. By removing the need for multiple vendors or complex integration, the solution reduces risk, shortens deployment times, and ensures reliable operations.

Based on NB-IoT technology, the system delivers secure and cost efficient connectivity, even in challenging indoor environments. Compliance with European regulations such as GDPR, NIS2, RED, CRA, and ISO 27001 guarantees that security and data protection are maintained at the highest standards.

At the heart of the service is the Landis+Gyr IoT Hub, a powerful platform that gives utilities full visibility and control. It enables seamless device monitoring, connectivity diagnostics, and data visualization, so decision makers always have the insights they need to manage networks efficiently.



**Landis+Gyr**  
manage energy better

Landis+Gyr  
ULTRAWATER® W370  
Smart Water Meter  
Solutions



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# Smart functions for Metering Intelligence

## Near-field communication (NFC)

Parameterization, data read-out, or fault finding: The integrated NFC interface allows easy meter access on site for different user roles (installers, consumers, etc.) via smartphone and UltraConnect app.

## Temperature measurement

Freezing can lead to broken pipes and leaks, high temperatures to accelerated bacteria growth. The W370 triggers a frost warning or ice alarm when the temperature gets too low and a hot temperature warning when it gets too warm (cold water meter).

## FOTA (Firmware update over-the-air)

Via the NB-IoT interface and cellular network, remote updates with new features, new standards, and bug fixes are possible. A meter exchange is unnecessary.



## Advanced battery management

Thanks to its low-power design with NB-IoT, the W370 can operate for 15 years without battery exchange. The power consumption is monitored, and the remaining battery life is continuously predicted.

## Reverse flow detection

In case of an installed meter or a flow in the wrong direction, a warning is triggered. For determination of the risk of contamination and non-revenue water, the reverse volume is registered.

## Stagnation detection

Microorganisms can grow if no water is consumed. The W370 triggers a stagnation warning according to the preset number of days without flow.

## Sampling rate

The W370 measures the flow 1/s (1 Hz). That allows to measure also short, intermittent consumptions.

# ULTRAWATER® W370 – Excellence for Metering Intelligence

## Excellent connectivity for smart communication

The W370 is available with NB-IoT (LwM2M for interoperability) interface or a combined LoRa® and wM-Bus interface. The NB-IoT model doesn't need any additional infrastructure. It uses the cellular network for data transmission, remote parameterization, FOTA, planned reports, and real-time alarms. The combined LoRa/wM-Bus (OMS 4) model can easily be integrated in an existing LoRa or wM-Bus infrastructure and allows protocol switching in the field.

## Excellent information for improved decision-making

The W370 generates smart data to improve water networks. It displays and transmits vital information like detailed alarms and warnings regarding temperature, stagnation, fraud etc. Its comprehensive logbook can keep track of up to 40 events to provide a full overview over the meter's history. Its datalogger offers an extensive in-built memory to provide interface-independent historic data. And a flow histogram allows analyzing the flow profile, e.g. to estimate the water quantity lost through leaks.

## Excellent design for greater sustainability

The robust and long-term stable ultrasonic measurement technology is based on more than 40 years of experience in developing and deploying this technology. It's resistant against abrasion and particles and needs no moving parts. That reduces the wear to zero. The compact UV-stabilized housing and tubes consisting of robust lead-free brass ensure a long lifetime. The low-power design enables a battery life of up to 15 years. And an advanced sealing concept ensures IP68 and IP66 protection.



## Sizes

Connection	Length [mm]	Q3 [m³/h]
DN15 G ¾	110	2.5
DN15 G ¾	134	2.5
DN15 G ¾	165	2.5
DN20 G1	105	4
DN20 G1	130	2.5
DN20 G1	130	4
DN20 G1	154	4 (LD)
DN20 G1	190	2.5 (LD)
DN20 G1	190	4 (LD)

## Operation / Storage temperature

+0.1 ... +5 °C / 20 ... 70 °C

MID Class T5: 0 ... +50 °C

MID Class T3: 0 ... +30 ... 70 °C

IP68 and IP66: Submersible and protected against water jets

1x Li/SO<sub>2</sub> battery, lithium content: 5 g

Orientations: Vertical, horizontal, tilted  
Installation like non-smart meter: All start-up procedures are carried out automatically

MAP 16 / AP4, AP6

1 Hz (integration period)

Metrical log (for firmware updates, 5 adjustment (calibrations), event log: up to 40 events, communication log)

Set of values: 5 years, 7, 2 months, 20 days, 18 hours

Consumer: Read only, check and analyze consumption, only own meter  
Installer: Commissioning only  
Service technician (certificate required): Commissioning, parameterization, analyze meter, all own meters, test, reset

Lab (certificate required): Adjustment, test, reset

Standard: NB & NB2

Sim: Landis+Gyr customer supplied  
Protocol: LoRaWAN®  
Frequency Bands: 3, 5, 20, 20, 20, 20

## LoRa

Version: 1.3  
Class: A (bidirectional)  
Protocol: M-Bus  
Frequency: 868 MHz  
Activation: 0° for ABP  
Transmission intervals: 15 min, 30 min, 60 min, 1, 2, 24 h

## wM-Bus

OMS Generation 4  
Modbus: T1 or T1  
Protocol: wM-Bus  
Frequency: 868 MHz  
Security profile: Unencrypted, 5, 7, 8, 9, 10, 11, 12, 24 h  
Data content: Preselected or customized  
Transmission intervals: 20 s, 5 min

