

LACROIX unveils SOFREL LevelUp, its new high-precision radar for water networks.

Nantes, April 28, 2026 - The LACROIX Group announces the launch of LevelUp, a water level measurement sensor based on radar technology, designed for operators of drinking water networks, wastewater systems, and natural water monitoring. When paired with SOFREL LogUp, it provides a field solution combining millimetric precision, robustness, and simplified deployment.

Water level measurement: a strategic challenge for water networks

In a context of increasing climate pressure, monitoring water levels has become a strategic imperative for territorial resilience. LACROIX identifies three key pillars where real-time data is becoming critical:

- **Securing access to the resource:** in drinking water systems, continuous reservoir monitoring is a key safety mechanism that ensures supply continuity, anticipates consumption peaks, and helps prevent shortages. It is also a major driver of energy efficiency through the optimisation of pumping cycles.
- **Managing environmental emergencies:** in wastewater systems, radar-based monitoring makes the invisible visible by instantly detecting overloads, blockages, or inflow and infiltration (I&I). This responsiveness is essential to prevent urban flooding and to stop any pollutant discharge into the natural environment during intense rainfall events.
- **Anticipating climate variability:** for natural water bodies, the technology acts as a sentinel in the face of extreme conditions. It helps anticipate the severity of floods while also monitoring low-flow vulnerability, providing decision-makers with the data needed to adapt territories to climate shocks.

Radar vs ultrasonic: why radar is prevailing

For many years, ultrasonic sensors have dominated the level measurement market, valued for their ease of deployment. However, their accuracy is highly dependent on environmental conditions: temperature, humidity, the presence of vapour, or turbulence can significantly disrupt acoustic signal propagation.

Radar technology, now more compact and more accessible, overcomes these limitations with remarkable reliability. Unaffected by harsh atmospheric conditions (vapour saturation, condensation, turbulence), it ensures stable and accurate measurements regardless of the type of structure.

Radar's advantages over ultrasonic technology:

- Insensitivity to variations in temperature, pressure, and humidity
- Measurement stability in saturated atmospheres and highly turbulent structures
- Higher accuracy and extended range, even in challenging environments
- Ability to equip sites previously inaccessible to ultrasonic sensors

Building on its recognised expertise with the LT-US ultrasonic sensor, LACROIX is now taking a new technological step with SOFREL LevelUp, marking the transition to a new era of more reliable and more robust measurement.

LevelUp: the benefits of a solution designed for field conditions

Designed to operate in combination with the SOFREL LogUp data logger, LevelUp provides a complete response to today's challenges faced by network operators: infrastructure modernisation, equipment digitalisation, cybersecurity, and optimisation of field operations.

Simplified installation for rapid commissioning

LevelUp features an adjustable, orientable mounting system that enables precise sensor positioning even in structures with complex geometries. This design also facilitates on-site access for operators, a significant advantage under real-world operating conditions. The sensor incorporates a highly precise adjustment mechanism — including a calibration ring and a laser alignment system — ensuring fast and reliable commissioning, with minimised risk of error.

Unified configuration via mobile application

Configuration has been fully redesigned around a single mobile application, enabling simultaneous setup and control of both SOFREL LogUp and LevelUp. This approach ensures consistent configuration settings, reduces the risk of errors, and guarantees data security in compliance with the RED directive—delivering significant time savings during on-site interventions. It is part of a modern supervision approach: collected measurements are transmitted in real time to remote monitoring platforms, providing operators with continuous and immediate visibility of their networks. This represents a key lever for accelerating the modernisation of water infrastructure supervision. *er essentiel pour accélérer la modernisation de la supervision des infrastructures d'eau.*

“SOFREL LevelUp is much more than a new sensor: it is the result of a long-standing conviction that measurement reliability is the first link in network performance. By moving to radar technology, we are providing operators with unmatched precision and robustness, where field conditions are the most demanding. Combined with the SOFREL LogUp data logger and our mobile application, this sensor reflects our vision of instrumentation that is easy to deploy, secure, and fully aligned with the digitalisation challenges of water infrastructure,” says Guilhem Lemonnier, Product Manager for Instrumentation.

Technical characteristics

Characteristics	Value
Technology	60 GHz radar — narrow beam, high penetration capability
Measurement range	0,2 m to 10 m
Precision	2 mm (+-0.2 %)
Protection	IP68 — temporary immersion
Communication	Proprietary Modbus RS485 - exclusive to Sofrel LogUp"
Power supply	Optimised remote power supply via SOFREL LogU
Compatibility	Exclusively paired with the SOFREL LogUp data logger
Configuration	Single mobile application "My Sofrel LogUp" (LogUp + LevelUp)
Compliance	RED Directive (radio equipment cybersecurity)

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About LACROIX

LACROIX is a French mid-cap technology and industrial group with an international footprint, specializing in the design and manufacture of electronic equipment, as well as the delivery of reliable and secure industrial IoT solutions. A family-owned, publicly listed company, LACROIX generated €445 million in revenue in 2025. The Group builds on recognized expertise and structures its development around two core business activities: Electronics and Environment.

Through its Electronics activity, LACROIX supports its customers from design to the manufacturing of embedded electronics for their solutions. Leveraging a network of geographically complementary and competitive manufacturing sites, the Group serves a wide range of sectors, including automotive, industry, connected homes and buildings (HBAS), aerospace and defense, and healthcare. As the industrial backbone of the Group, the Electronics activity ranks among the Top 50 electronic manufacturing services providers worldwide and the Top 10 in Europe.

Through its Environment activity, LACROIX supports public and private stakeholders in optimizing and securing the management of critical infrastructure networks by offering connected and secure solutions and services dedicated to water networks, heating, ventilation and air conditioning (HVAC) systems, energy networks (Smart Grids), and public lighting.

LACROIX pursues a strategy of sustainable long-term growth. The Group focuses its activities on the development of useful and eco-designed technologies aimed at addressing major societal challenges, as part of a resilience-driven approach with a positive impact.