

xylem



iPERL[®]

HIGH-PERFORMANCE STATIC WATER METER WITH
PATENTED MAGNETIC FIELD TECHNOLOGY (AVAILABLE IN DN15-DN40)

 **SENSUS**
a xylem brand

iPERL® – Your first step into smart water metering

Smart water metering is the first step on your way to managing a more sophisticated and sustainable water distribution network. iPERL is a proven high-performance solid state smart water meter with integrated bi-directional communication capabilities and the foundation of any efficient water network.

Using a fixed AMI communications network, iPERL meters can identify potential issues in the network enabling you to address them quickly. Our smart water network solutions are scalable to fit the needs of large and small utilities alike, using technologies that will grow with you into the future, delivering ongoing and tangible benefits from your investment.

Sensus iPERL offers unrivalled, sustained measurement accuracy for all sizes from DN15 to DN40. Unlike other solid-state meters, its remnant magnetic field technology provides

a constant linear accuracy. As it has no moving parts, it also offers extremely low-pressure loss across all meter sizes.

Thanks to its leakage detection capability, iPERL is an excellent solution for non-revenue water reduction and maintaining network integrity; resulting in more efficient and less wasteful water distribution.

Smart water networks offer utilities of all varieties a tremendous opportunity to improve productivity and efficiency while enhancing customer service. These values though are underpinned by the accuracy, reliability, and availability of the data from which decisions are made.

iPERL delivers whole life value and utility grade communications technology, which offer a technology roadmap fully aligned to delivering a smarter water network.



R800 metrology for unparalleled accuracy with flow rates as low as 1l/h



Long lifetime of 15 years with no need for meter calibration or replacement



Tamper proof and fraud resistant due to manipulation detection and encrypted data



100% lead-free for environmentally friendly manufacturing and easy recycling



SensusRF and OMS (Wireless M-Bus) compatibility ensures that the accumulated data is always accessible



Walk-by, drive-by or fixed radio network communications options for AMR and AMI usage



Highly durable: Can withstand temperatures as low as -20°C



Records data at all times for constant consumption monitoring



No moving parts and an IP68 rating allow for installations in any orientation – even under water



Time stamped alarms notify about events via radio and via display

iPERL® – Part of your smart water network



Measure accurately. Manage effectively.

Water utilities are increasingly under pressure from governments, regulators and customers to make the best use of that valuable, limited and most natural of resources – water.

To do this, while enhancing customer engagement and improving network reliability, you need a solution that protects installed capital investment whilst enabling your business to move forward and deliver tangible benefits both to the organisation and your customers.

The data captured by iPERL provides your business with the accurate information

needed to identify and help manage network issues proactively and efficiently.

It also helps you address regulatory and environmental challenges whilst improving customer service, security of supply and operational efficiencies.

Customers receiving regular, accurate bills, are much more likely to proactively engage with their suppliers on reducing their consumption or exploring ways to fix leaks within their property, creating a win-win situation for everyone – them, you and the environment.

Benefits for your customers

- ✓ Made of fully recyclable materials for more sustainability and a lower CO₂ footprint
- ✓ No more need to supply meter readings manually
- ✓ Advanced leakage detection to help improve accuracy in identifying customer-side issues
- ✓ Accurate and fair billing gives customers confidence
- ✓ Enduring accuracy during its long-lasting service life
- ✓ More information on customers' household efficiency and saving potential
- ✓ Greater visibility of water usage helps customers make informed choices
- ✓ No degradation of parts – unlike mechanical meters

The flexible communication solution

Whether internet, telephony, or electricity – intelligent network communications are all around us and offer almost unlimited possibilities. So why not apply the same principle to one of our most important resources – water.

iPERL offers mobile meter reading solutions using handheld or vehicle devices (walk-by/drive-by), or fixed network communications. It is equipped with SensusRF radio and Wireless M-Bus, which integrate seamlessly with DIAVASO, our dedicated meter reading and management software for remote meter reading (AMR) or small-scale fixed networks (AMR+).

iPERL can also be easily integrated into our Sensus FlexNet long-range radio solution to enable enhanced AMI networks. Furthermore it can be integrated into other existing AMI networks.

Consequently, iPERL can be pivotal to delivering a complete end-to-end solution for water utilities, by not only taking precise measurements of water consumption and flow, but also securely interfacing with various communications solutions using the latest security standards.

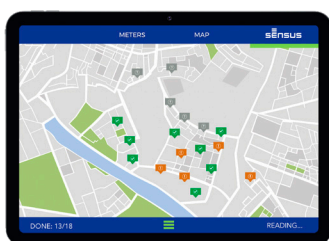
This ensures that the readings taken get back to your data centres reliably; allowing network engineers to confidently use the information as part of their digital modernisation strategy, and should alarm conditions arise, enable them to react swiftly to remedy leaks and bursts before impacting your customers or degrading your network.

iPERL saves your business time, money, improves targeting of field crews, and increases customer service levels.

Xylem Solutions

At Xylem, the needs and demands of our customers play a pivotal role in the development of our products. When planning and constructing water supply networks, large buildings and houses there are many technical aspects to consider in terms of energy efficiency and sustainability. At Xylem, we have not only the engineering

and technical know-how but also offer a broad range of high-quality water and thermal energy meters, pump systems and water treatment units to support all your application needs, including heating and cooling solutions. For more information, contact your local Xylem sales or go to xylem.com.



DIAVASO Mobile App Suite
Remote meter reading



DomoJet
Domestic apartment
water meter



**LOWARA ecocirc
BASIC Series**
Efficient circulator
pump



Cordonel®
Solid-state commercial
and industrial water meter



Lowara GHV series
Fully automatic booster
sets for water supply and
water pressure



PolluStat®
Ultrasonic thermal
energy meter

Working together for a zero-carbon future.

Our solutions leverage on high efficiency technologies to reduce emissions across clean water and wastewater activities.



Xylem |'zīləm|

- 1) The tissue in plants that brings water upward from the roots;
- 2) a leading global water technology company.

We're a global team unified in a common purpose: creating advanced technology solutions to the world's water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor and return water to the environment, in public utility, industrial, residential and commercial building services settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced analytics solutions for water, electric and gas utilities. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise with a strong focus on developing comprehensive, sustainable solutions.

For more information on how Xylem can help you, go to xylem.com



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