



SenthiSYS™

Smart Water Meter Solutions



The SentiSYS Smart Water Meter Solutions

Public water agencies and utilities face a growing number of financial, operating, regulatory, and human resource challenges. Water networks built over many decades are experiencing asset degradation. Tight budgets with limited rate increases mean that capital is competitive for equipment replacement. More stringent water use restrictions due to draughts, water scarcity, and environmental regulations mean finding new ways to mitigate water loss. An aging workforce is driving the adoption of technology to automate tasks and increase employee efficiency. Finally, customers are expecting greater transparency into their water usage, including timely and error-free bills.

Advanced Metering Infrastructure (AMI) has been widely adopted in recent years by utilities turning to technology to help alleviate and address these pain points. When initially designed, advanced metering technologies provided little more than automated meter reading and basic system alerts. However, AMI technology has now evolved to the point where it is considered a must have for a smart city, and has become a foundational element of distribution modernization.

The latest generation of AMI technologies have been field tested, proven to deliver a return on investment, and have resulted in positive outcomes for both water utilities and their communities. Much more than just a meter project, AMI should be considered a large-scale technology project with complex requirements. However, when planned, and managed by a dedicated team of experts who understand how to navigate the procurement, design, installation, and data management components, AMI provides measurable improvements and relief to the operational pressures utilities face.



Smart Water Meter Network

SentiSYS delivers AMI solutions that enable water utilities to address both their near and long-term challenges, while reducing the risks involved with adopting smart technologies. The AMI options for utilities include vendors that offer proprietary and open-standard solutions, provide different levels of data insights, and have different value propositions based on geography, density, and use cases. As a vendor-neutral partner, we help utilities navigate those differences and select the best-fit for their requirements. The undisputable value in AMI lies in the data and its application. AMI captures and reports near real-time and granular water consumption and automated alerts that pinpoint issues before they become a larger problem. Overall, AMI data provides the information needed to improve system management, enhance efficiency of staff, target limited resources on high-priority equipment, and provide proactive customer support.

Smarter Networks from SentiSYS

AMI, like other remote sensor networks, can uncover hidden insights that allow managers to make timely and data-driven operating decisions. SentiSYS helps design solutions on a single wireless network and software platform so that agencies can realize operating efficiencies, experience financial benefits, management simplicity, and gain economies of scale.

Alternative wireless technologies, such as LoRaWAN, along with a new generation of small-form and intelligent sensing devices, have changed the economics behind smart solutions. LoRaWAN was developed to provide smart sensor-driven applications with a secure and affordable network with wide-area coverage. In addition, LoRaWAN does not compete for bandwidth like cellular or WiFi networks. LoRaWAN provides interoperability via open standards so that a single network can support multiple types of smart sensor solutions.

Our Services

SentiSYS offers utilities and government agencies an end-to-end smart solution. We help design, procure, install, and manage meter and sensor networks and their data. Working with trusted technology and software vendors, we apply proven project and change management methodologies to mitigate the risks associated with deploying new technologies. We believe that local governments and utilities can realize significant financial, operational, and quality of service benefits by deploying multiple IoT applications on a secure wireless network with a consolidated single data management platform.

Features

- Hourly interval reads
- Expand troubleshooting capabilities
- No flow/stopped meter alert
- Increase safety and efficiency of meter technicians
- High flow/large leak alert
- Missed read/stopped meter alert
- Reverse flow/backflow alert

Benefits

- Proactive customer service
- Enhanced troubleshooting capabilities
- Enable preventative and predictive maintenance
- Improve safety and efficiency of meter technicians
- Localize potential leaks or water theft
- Reduce unauthorized/non-revenue water loss
- Improve asset management



MeterSYS is a smart solutions consultant and systems integrator. SentiSYS is our brand of end-to-end smart community solutions. We have been delivering smart infrastructure solutions since 2015, primarily in advanced metering solutions, and our expertise is providing our public clients with an reliable and cost-efficient wireless sensor network solution. We have expertise in vendor evaluation, bidding and procurement, project management, installation, systems integration, change management, and data management analytics and services.

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