Oldcastle Infrastructure™
A CRH COMPANY

CIVILSENSE™

Sewer Level Monitoring

From Blind Spots to Clarity: Smarter Sewer Visibility for Better Decisions

Sewer Level Monitoring is an advanced wastewater and stormwater measurement system designed to provide utilities with a clearer, more comprehensive understanding of the water levels in their collection networks. It utilizes low-cost, long-life ultrasonic sensors that are specifically engineered for rapid deployment and minimal maintenance. By combining sensor readings with contextual data such as rainfall intensity and operational inputs, the system enables utilities to transition from reactive field operations to a more predictive, data-driven management approach. Ultimately, it acts as an intelligence layer that modernizes the traditionally opaque processes surrounding sewer system performance.

Stay Ahead of Blockages and Overflows with Real-Time Monitoring and Predictive Alerts

The system continuously measures water levels inside manholes using contact-free ultrasonic sensing technology, which allows it to capture real-time data without exposure to harsh wastewater environments. These measurements are transmitted to a cloud-based analytics platform, where they are merged with rainfall data, historical patterns, and operational conditions from the broader sewer network. Through this integration, operators can view live dashboards and receive predictive alerts that flag potential blockages, infiltration events, or surcharge conditions. This capability allows teams to identify issues hours—or even days—before they escalate into service disruptions, environmental spills, or regulatory compliance failures.



Everything You Need for Real-Time Sewer Visibility

- **Sewer Monitors - ultrasonic sensors to provide real-time visibility of water level changes.**
- **CivilSense Portal - Track progress and review all your activity 24/7 on your desktop or via API to your existing platform.**

Cut Costs and Boost Reliability with Maintenance-Free, Predictive Sewer Monitoring

Unlike traditional sewer monitoring solutions that rely heavily on manual inspections, expensive flow meters, or disruptive installation processes, this system offers a more accessible and scalable alternative. Its sensors are designed to be installed in under ten minutes, drastically reducing labor costs and making widespread deployment feasible even for smaller utilities with limited budgets. The contact-free measurement method reduces long-term maintenance needs and improves reliability compared to submerged or mechanically exposed devices. Furthermore, the integrated analytics platform transforms raw data into actionable insights, providing predictive capabilities that legacy monitoring tools simply cannot match.

Improve Compliance and Protect Communities with Early Risk Detection

Sewer Level Monitoring fundamentally shifts how wastewater and stormwater systems are managed—moving from reactive, event-driven responses to proactive, intelligence-driven operations. By identifying risks early, the system helps prevent flooding, basement backups, environmental contamination, and emergency repair costs. It also enhances regulatory compliance by providing better documentation, early-warning capabilities, and the ability to demonstrate ongoing network oversight. Given its low cost and ease of deployment, utilities can expand monitoring coverage across far more locations, increasing system resilience and improving service reliability for the communities they serve.

Industry-Leading Solutions Powered by Decades of Experience and Global Strength

Oldcastle Infrastructure is the foundation communities build on.

For more than 50 years we've partnered with our customers to solve North America's biggest infrastructure challenges. Across water, energy, and communications we bring more than 16,000 precision-engineered products, matched with design expertise, maintenance support, and on-time delivery. We innovate in material science, technology, and digital solutions to deliver what customers need today, and for the decades ahead.

As part of CRH, we're backed by one of the largest, most trusted infrastructure companies in the world. Our unmatched scale, experience and product breadth means that we deliver what no one else can—full-scale solutions.





CivilSense™ is an intelligent water platform designed to transform how municipalities, utilities, and engineers manage, protect, and expand their networks. This end-to-end suite of smart water solutions fuses advanced AI, deep industry expertise, and powerful technology into one unified platform designed to help ease water network management. With CivilSense, teams can spot risks before they escalate, predict costly failures and blockages, and unlock new efficiencies across inspection, repair, remediation, and replacement.

Predictive Risk Analysis Starts Here.

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