



The Affordable Alternative to SCADA

Digi Z45 and Digi Z45 RMS Transform Water and Wastewater Remote Monitoring and Operations

Challenge

A mid-sized water and wastewater management company with multiple pump stations and treatment facilities lacked a Supervisory Control and Data Acquisition (SCADA) system, making remote monitoring and management of critical infrastructure challenging.

The company faced several operational hurdles including:

- **Limited ability to monitor and control remote assets** such as pumps, valves, and chemical dosing systems
- **Dependence on manual inspections**, leading to inefficiencies and increased operational costs
- **Delayed response times** to equipment failures, impacting service reliability
- **High costs and complexity** associated with deploying a full SCADA system

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Digi Z45



Digi Z45 RMS

Solution

Recognizing the need for a cost-effective, scalable remote monitoring solution, the company adopted the [Digi Z45 Industrial Controller](#) and [Digi Z45 Remote Management System \(RMS\)](#), with Digi's Infrastructure Management team providing tailored consultation and a deployment strategy.

Key Features Implemented:



Secure remote access: Engineers could monitor and control infrastructure instantly from any location



Plug-and-play deployment: Quick and easy installation without the need for extensive coding or configuration



Cloud-based management: Centralized monitoring, instant alerts, and data analytics for proactive maintenance



Rugged design: Digi Z45 RMS, housed in a NEMA 4X enclosure, was built for harsh environmental conditions

Explore Digi's [Industrial Automation Solutions](#) →

For more information, visit:

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Implementation Process

Digi collaborated with the operations team to deploy Z45 and Z45 RMS across 15 sites, enabling seamless, cost-effective remote monitoring integration.

Results and Benefits



Reduced downtime: Instant monitoring and alerts enable immediate response to equipment failures, minimizing disruptions



Significant cost savings: Remote diagnostics and monitoring reduce the need for frequent site visits, lowering labor and travel expenses without a major investment



Operational efficiency: Automated data collection and analytics optimize equipment performance and resource allocation while keeping expenses low



Scalability on a budget: The system provides a flexible, cost-effective solution that can expand as operations grow, accommodating additional sites and devices effortlessly



Digi Z45 Remote Management System
Industrial Controller (Open)

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Your Gateway to Cloud and Edge-Based Remote Monitoring and Control Solutions

Elevate your monitoring and control capabilities with **Digi Axess**. Whether you prioritize edge-based control or the flexibility of cloud-based monitoring, Digi Axess serves as your unified platform, offering an intuitive interface to streamline data management for enhanced operational efficiency.

Unlock simplified automation control at the edge, with our built-in functions and logical operators to enable:

- **Dynamic scheduling:** Customize tasks for peak efficiency using real-world data
- **Conditional actions:** Trigger tailored responses based on complex conditions
- **Adaptive control:** Optimize performance and adjust parameters based on feedback

Explore Digi's [Industrial Automation Solutions](#) 

“Deploying Digi Z45 and Z45 RMS has been a game-changer for our operations. We now have complete visibility and control over our remote sites, allowing us to respond proactively to issues and ensure optimal performance — all at an affordable cost. The ease of deployment and user-friendly interface made it the perfect solution for our needs.”

— Operations Manager

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