



Redefining Industrial Automation

Digi Connect® Sensor XRT-M and Remote Monitoring Solutions

In the dynamic world of industrial automation, organizations are increasingly turning to advanced technologies to enhance operational efficiency and maintain competitive advantage. The integration of Industrial Internet of Things (IIoT) devices is reshaping industrial processes, offering unprecedented levels of

control, insight, and scalability. This white paper explores how Digi International's innovative solutions, particularly [Digi Connect Sensor XRT-M](#) with [Digi Axxess](#) for remote monitoring, are driving advancements in industrial automation by providing superior monitoring and data acquisition capabilities.

Industrial automation systems are evolving rapidly, driven by the need for greater efficiency, reliability, and flexibility. As industries seek to optimize operations and respond to emerging challenges, advanced solutions like [Digi Connect Sensor XRT-M](#) with [Digi Axxess](#) are proving essential in meeting these demands.

The Role of Remote Monitoring Technology

In modern industrial applications, accurate and reliable field data is crucial for informed decision-making and efficient operations. However, accessing this data from remote or challenging environments can be difficult. Digi Connect Sensor XRT-M is an excellent solution, providing robust remote monitoring capabilities for both existing and new sensors. Digi Connect Sensor XRT-M delivers the critical insights needed to optimize decision-making and improve operational efficiency. With dependable data access, Connect Sensor XRT-M empowers you to maintain smooth and efficient operations, overcoming data challenges in even the most demanding settings.

Key Features Include:

- **Durability:** IP68 and C1D2 rated, Digi Connect Sensor XRT-M is designed to withstand harsh industrial environments.
- **Precision:** A 12-bit analog to digital converter ensures accurate data collection.

- **Dual 12Ah battery packs:** Extend operating hours with dual packs and optimized transmission to reduce cellular connectivity time.
- **Seamless integration:** Compatibility with a wide range of industrial systems via 4-20 mA, 0-10 V, digital, and modbus inputs.

By incorporating Digi Connect Sensor XRT-M into your operations, you can achieve more connected and responsive monitoring, enabling timely interventions and optimizing performance.

Enhancing Proactive Management with Accurate Monitoring

Accurate remote monitoring is essential for maintaining optimal performance and preventing downtime. Digi's advanced solutions, including Digi Connect Sensor XRT-M with Digi Axxess, offer a rugged, battery-powered monitoring solution with versatile I/O for remote sensor connection. Digi Axxess streamlines data management from remote infrastructures and assets — uncovering actionable insights to maintain control. Fast and simple sensor configuration, data analytics, and the flexibility of customized reports make Digi Axxess an excellent remote monitoring platform.

For more information, visit:

www.digi.com

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Benefits of Remote Monitoring



Early problem detection: Threshold alert capabilities identify issues before they escalate.



Informed decision making: Digi Axxess provides historical and up-to-date information to help make better decisions in the field.



Operational efficiency: Consistent data delivered from Digi Axxess ensures processes are running smoothly and efficiently.

Digi Connect Sensor XRT-M with Digi Axxess provides comprehensive visibility into environmental variables such as temperature, humidity, and equipment status, enabling you to make data-driven decisions and maintain high performance across your operations.

Scalable Solutions for Diverse Industrial Environments

Industrial environments vary significantly in size and complexity. Scalable solutions are essential for accommodating different operational needs and ensuring that monitoring systems can grow with your requirements.

Digi Connect Sensor XRT-M's Scalability

- **Connectivity:** four analog inputs, a digital input, and mod-bus connections allow remote information to be expanded.
- **Cloud integration:** Digi Axxess can integrate with cloud platforms for data storage, analysis, and visualization. The scalable storage and resources of cloud services allow for larger volumes of data from multiple sensors.
- **Visualization and integration:** Digi Axxess allows you to visualize, trend, and analyze your data, as well as transfer data to your current platform for streamlined integration through a single pane of glass.
- **Remote management:** Remote configuration and management allows for easy deployment and updates across multiple sites without the need for on-site visits.
- **Power management:** Optimized dual-battery power extends the life of devices and reduces maintenance needs.
- **Security and reliability:** Built-in data encryption, authentication protocols, and robust failover mechanisms ensure the solution can scale securely.

Driving Innovation in Industrial IoT

The future of industrial automation is closely linked to advancements in industrial IoT technology. As industries evolve, the need for innovative, reliable, remote monitoring solutions becomes increasingly important.

Digi International's Commitment to Innovation:

- **Continuous improvement:** Ongoing development of products and solutions to meet evolving industry needs.
- **Customer-centric approach:** Tailored solutions to address specific challenges and drive operational success.

Digi International is dedicated to leading the way in industrial IoT, offering cutting-edge solutions like Digi Connect Sensor XRT-M with Digi Axxess that support the next generation of industrial automation.

Conclusion

As industries continue to adopt advanced technologies, the need for sophisticated monitoring solutions is more critical than ever. **Digi Connect Sensor XRT-M with Digi Axxess** is changing the way industrial environments like water, wastewater, and agriculture are utilizing remote monitoring technology.

By leveraging Digi's solutions, organizations can achieve greater efficiency, reliability, and scalability in their operations. To explore how Digi Connect Sensor XRT-M with Digi Axxess and other Digi products can transform your industrial automation systems, [visit our website](#) or contact our team for personalized assistance.

At Digi International, we are committed to helping you achieve operational excellence through advanced monitoring and connectivity solutions. Discover the benefits of our state-of-the-art products and join us in shaping the future of industrial automation.



Digi Axxess and Digi Connect Sensor XRT-M

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