

APPLICATION STUDY: FROM DETECTION TO PREVENTION: SENSERT'S SMART MONITORING & ALERTS SYSTEM TRANSFORMS WATER & WASTEWATER OPERATIONS



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BACKGROUND:

Effective monitoring of critical parameters such as pump vibrations, water pressure, and temperature is vital to maintain efficient operations in water and wastewater treatment plants. Traditional systems often lack the flexibility and remote capabilities required for modern operations. SENSERT™ addresses these challenges by offering comprehensive monitoring and alert solutions to prevent system failures and ensure operational continuity.

THE CHALLENGE:

Water and wastewater treatment plants face numerous challenges, including the need to continuously monitor and maintain various environmental and operational parameters. Failure to detect and respond to issues like pump malfunctions or tank overflows can lead to significant operational disruptions, costly repairs, and environmental hazards.

THE SOLUTION:

The **SENSERT™** system, comprising the Base Unit and Remote I/O, offers an advanced solution for monitoring and protecting water and wastewater treatment processes.

Key Features:

- **Real-Time Monitoring:** Continuously monitors sensor data, providing immediate insights into process conditions.
- **Customizable Alerts:** Configurable alerts through the SENSERT Mobile App or Web Portal, with high and low threshold settings and custom alerts for each channel.
- **Wireless Communication:** Remote I/O units communicate with the Base Unit via Bluetooth Mesh, with a range of up to 100 meters (line-of-sight).
- **Versatile Sensor Compatibility:** Supports sensors for temperature, humidity, vibration, pressure, and more using 0-20mA, 4-20mA, 0-5V or 0-10V analog output.
- **Easy Configuration:** Configurable through mobile and web applications for real-time data monitoring and alert management.

THE BENEFITS:

Enhanced Operational Efficiency: SENSERT™ helps prevent equipment failures and reduce downtime through real-time monitoring and alerts.

Improved Safety: Continuous monitoring and immediate alerts enhance operational safety by detecting out-of-range conditions early.

Scalable and Flexible: Capable of connecting up to 5 Remote I/O units to a single Base Unit, the system scales easily to meet various application needs.

Disaster Prevention: Early warnings in case of system failures, such as pump malfunctions or tank overflows, help prevent catastrophic losses.

THE FUTURE:

SENSERT™ is poised to revolutionize water and wastewater treatment by providing comprehensive, real-time insights and alerts. As the industry moves towards greater automation and remote operations, the demand for flexible and reliable monitoring solutions like SENSERT™ will continue to grow.