



Digitalization – Water Treatment IoT

Sustainability Through Digital Water Solutions.

The IoT-Based Water Treatment Monitoring System provides real-time tracking of key water quality parameters such as flow, level, temperature, TDS, chlorine, and pH. By integrating smart sensors with IoT gateways and cloud dashboards, the system enables continuous monitoring, data logging, and remote visibility across treatment units. This digital approach ensures accurate analysis, process optimization, and reliable water quality compliance, while reducing manual effort and operational downtime.

Problem Statement

- Water treatment plants rely on manual monitoring of parameters like flow, level, temperature, TDS, chlorine, and pH, leading to delays and human errors.
- Lack of real-time visibility makes it difficult to detect faults, leaks, or quality deviations promptly.
- There is a growing need for an automated, IoT-based monitoring system that ensures real-time accuracy, remote accessibility, and predictive maintenance.

Solution

- IoT-Enabled Sensor Network: Deploy smart sensors to continuously measure flow, level, temperature, TDS, chlorine, and pH across all water treatment units.
- Cloud-Based Data Aggregation & Dashboard: Transmit sensor data to a centralized cloud platform for real-time visualization, trend analysis, and historical data logging.
- Automated Alerts & Notifications: Configure threshold-based alerts to notify operators of abnormal readings or potential process issues instantly.
- Process Optimization & Predictive Maintenance: Use analytics to optimize treatment cycles, reduce manual intervention, and schedule preventive maintenance for reliable operations.
- Enhanced Compliance & Efficiency: Ensure consistent water quality, regulatory compliance, and efficient resource utilization while minimizing downtime and operational costs.

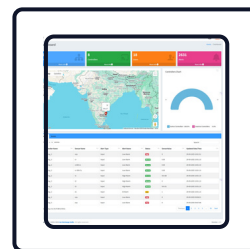
Products



Edge Computing Hardware



Server Software



Dashboard

Architechure

