



Digitalization – Water Softener IoT

IoT Intelligence for Every Drop.

Conventional water softener systems rely heavily on manual supervision for monitoring brine levels, water flow, and regeneration status. This manual approach often results in overuse of salt, improper regeneration cycles, and inefficient maintenance schedules.

To overcome these limitations, Rax-Tech International proposes an IoT-based Water Softener Monitoring System utilizing ultrasonic sensing technology for accurate level measurement and digital data logging. The solution enables real-time monitoring, predictive alerts, and performance analytics accessible via cloud dashboard and mobile app.

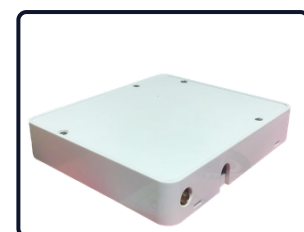
Problem Statement

- Unplanned downtime due to unnoticed low brine or high TDS conditions
- Overconsumption of salt and water from improper regeneration cycles
- Inaccurate level measurement caused by sensor fouling or manual error
- No centralized monitoring, making it difficult to track multiple systems across facilities

Solution

- Integrates IoT technology with ultrasonic sensors for real-time monitoring of brine and water levels, flow, TDS, and pH.
- Transmits sensor data to a cloud-based dashboard and mobile app for instant visibility and alerts.
- Enables accurate, non-contact measurement with predictive maintenance and optimized regeneration cycles.
- Provides a scalable, efficient, and sustainable solution aligned with Industry 4.0 digital transformation.

Products



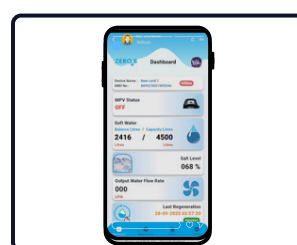
Water Softener
IoT unit



Water Softener
Salt level sensor
unit

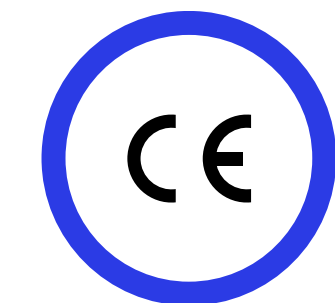
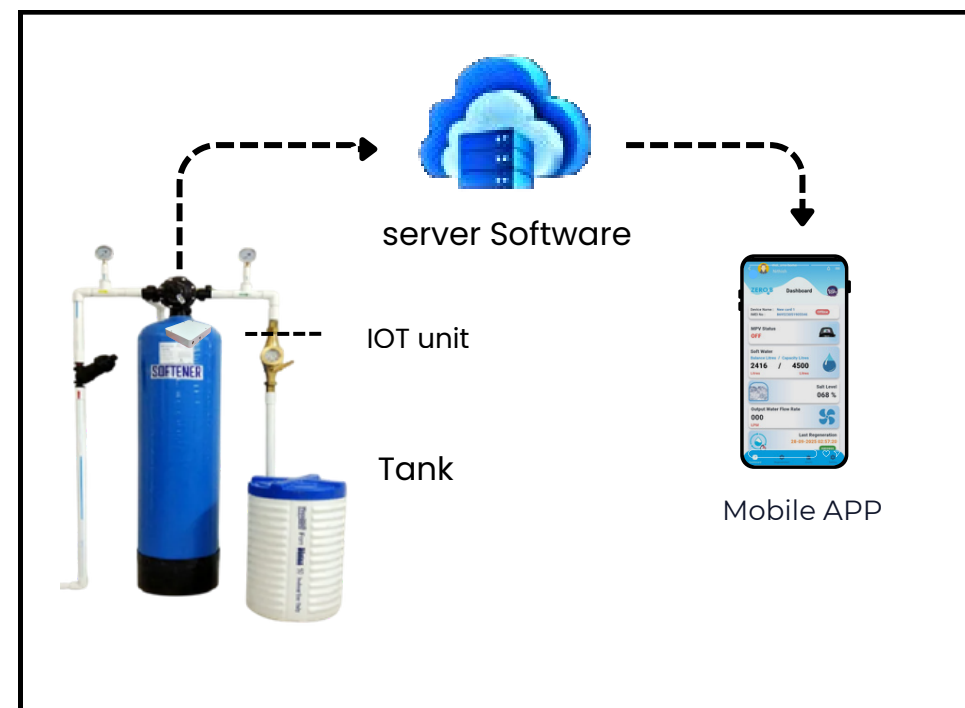


Server Software



Mobile APP

Architechure



ISO 9001:2015



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