

## DWLC - WiFi RTC : Smart Water Level Controller with Real-Time Clock

The DWLC-WiFi RTC is an advanced, fully automatic water level controller designed for single-phase motors. Integrated with the “Ktronics Tank Monitor” Android app, it allows users to monitor tank water levels and motor status remotely via Wi-Fi. Multiple users can install the app to access real-time data, enhancing convenience and control.

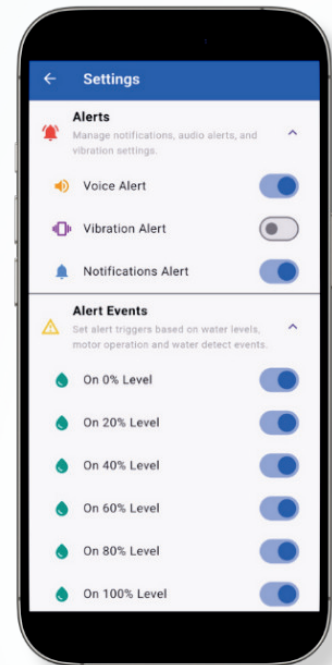


### Key Features:

- **Real-Time Clock (RTC):** Equipped with a built-in RTC, this controller enables users to set up to 16 ON/OFF cycles per day, providing precise scheduling for motor operation.
- **Remote Monitoring & Control:** Monitor and control the water level and motor status remotely through the “Ktronics Tank Monitor” Android app, accessible from anywhere with an internet connection.
- **Flexible Sensor Connectivity:** Supports both wired local sensors and remote sensors connected via a cloud server, making it ideal for tanks located far from the motor.
- **Motor Protection System:** Safeguards the motor against overload, dry run, and single-phase conditions, preventing potential damage and ensuring longevity.
- **Automatic Motor Operation:** Automatically starts the motor based on preset real-time schedules and stops when the tank is full or after the set off time, whichever occurs first.
- **Current Monitoring & Protection:** Continuously monitors the current drawn by the motor. Users can adjust low and high current settings to prevent damage. The system turns off the motor in case of overcurrent, undercurrent (dry run), or phase loss.
- **Tripping Alerts:** Displays the reason for motor shutdown along with the tripping current, aiding in quick diagnostics.
- **Off Timer:** Includes an off timer that automatically turns off the motor after a set duration, conserving energy and preventing overflows.
- **Water Level Sensors:** Additional sensors can be connected to overhead or underground tanks to automatically turn off the motor when the tank is full.

## Specifications:

- **Load Capacity:** 30–40A, 230V AC
- **Motor Compatibility:** Suitable for single-phase motors up to 5 HP
- **Input/Output:** Input: P, N; Output: P, N motor
- **Protection Features:** Overload protection, dry run protection, single-phase protection
- **Display:** Digital voltmeter and ammeter
- **Control Modes:** Auto and manual modes
- **Timers:** Cyclic timer, on delay and off delay timers, off timer
- **Indications:** Motor

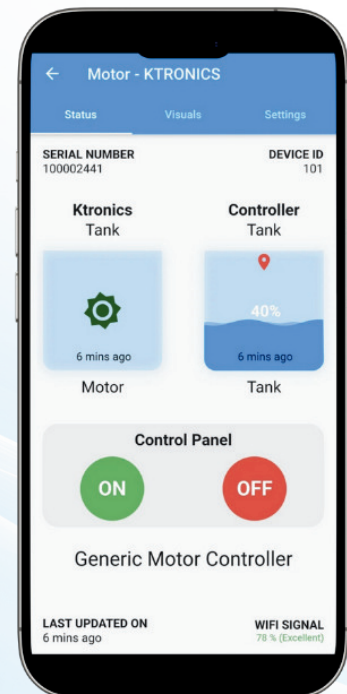


## Installation & Compatibility:

The DWLC-WiFi RTC is designed to be attached to existing motor starters. It allows the motor load to pass through the provided current transformer (CT) for accurate current sensing. This setup ensures comprehensive monitoring and protection of the motor.

## Ideal Applications:

- **Residential Use:** Ensures efficient water management in homes, preventing overflow and dry run scenarios.
- **Commercial Establishments:** Suitable for hotels, resorts, and offices, providing reliable water supply management.
- **Industrial Applications:** Facilitates automated water distribution in factories and large facilities, optimizing resource usage.



*With its comprehensive features and user-friendly interface, the DWLC-WiFi RTC offers an efficient solution for modern water level management and motor protection.*