

TPDS - WiFi - RTCM : Smart 3-Phase Motor Starter with Real-Time Clock & Water Level Controller

The TPDS-RTCM is a state-of-the-art, Wi-Fi-enabled water level controller designed specifically for three-phase motors. Integrating seamlessly with the “Ktronics Tank Monitor” Android app, it offers farmers and users the ability to monitor and control their water pumps remotely via their smartphones. Multiple users can install the app to access real-time water levels and motor status, enhancing accessibility and control.

Key Features:

- **Real-Time Clock (RTC) Scheduling:** Allows users to set up to 16 ON/OFF cycles per day, enabling precise control over motor operation based on time.
- **Remote Monitoring & Control:** Monitor tank water levels and control the motor 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 through a cloud server, making it ideal for tanks located far from the motor.
- **Motor Protection System:** Safeguards three-phase motors against overload, dry run, and phase loss, preventing potential damage and ensuring longevity.
- **Cyclic Timer:** Features a built-in cyclic timer that allows users to set periodic motor operation intervals, optimizing water distribution.
- **Current Monitoring:** 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:

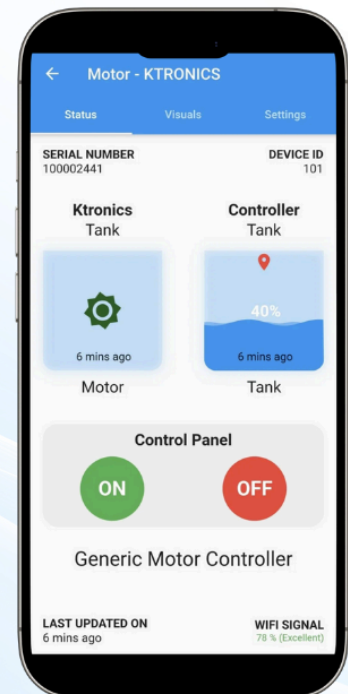
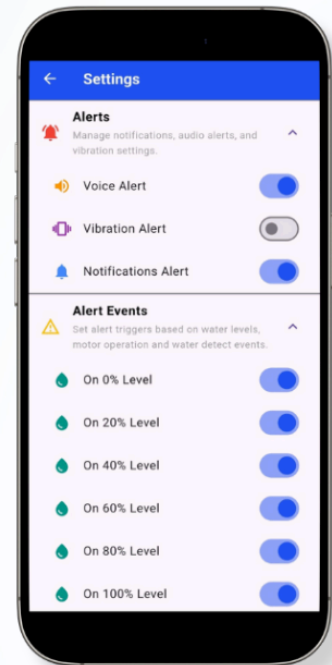
- **Load Capacity:** Up to 40A, 415V AC
- **Motor Compatibility:** Suitable for motors up to 7.5 HP
- **Input/Output:** RYB Input & RYB Output
- **Protection Features:** High & low voltage protection, overload protection, short circuit protection
- **Display:** Digital volt and ampere meters
- **Control Modes:** Auto and manual modes with bypass option
- **Timers:** Cyclic timer, on delay and off delay timers, off timer
- **Indications:** Motor on indication, RYB phase indication, auto and bypass switch indications

Installation & Compatibility:

The TPDS-RTCM 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:

- **Agricultural Use:** Ensures efficient water management in farms, 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 TPDS-RTCM offers an efficient solution for modern water level management and motor protection.