



TPDS40W – 3 Phase Wireless Starter with Water Level Controller

Smart Protection & Automation for 3-Phase Motors

The TPDS40W is a high-performance 3-phase digital DOL starter with built-in motor protection, cyclic timer, and water level control—designed to automate and safeguard motors up to 7.5 HP.

This intelligent system monitors motor health in real-time and controls operation based on **current draw**, **voltage stability**, and **tank water levels**, ensuring **safe**, **efficient**, and **automated** pumping.

Ktronics: Pioneering Advanced Wireless Technology for Smart Solutions

At Ktronics, we're redefining wireless automation with **India's first and most advanced patented technology**—a truly revolutionary system that operates **without the need for Wi-Fi, Internet, Bluetooth, SIM cards, or monthly subscriptions**.

Our solutions are engineered to be **fully independent, reliable, and cost-effective**. Powered by **advanced copper sensor technology**, our devices offer **long-lasting durability**, with resistance to **rust and salt deposition**, making them ideal for diverse



Key Features:

- **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.
- **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:** 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 TPDS40W-WiFi 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.

Water Level Control with Dual Operating Modes

1. Fully Automatic Mode

Motor turns ON when the tank is empty and OFF when full.

2. Manual Mode with Alerts

Manual control supported with alarm indicators for tank status.

3. Manual Override & Fault Bypass

Easily override faults and manually control motor at any time.

4. Solar-Powered Wireless Transmitter

Operates wirelessly with no external power required near the tank.

5. Low Battery Notification

Alerts user when transmitter battery is low.

6. Shockproof & Durable Design

Built with advanced filtering and a robust, long-lasting enclosure.

7. Copper Sensor Technology

Ensures zero salt deposition, rust resistance, and long-term reliability.

Why Choose Ktronics TPDS40W?

With unmatched wireless innovation, intelligent motor control, and rugged design, the TPDS40W offers **next-gen automation for agriculture, water systems, and industrial applications**—all while ensuring **maximum safety, efficiency, and ease of use**.