



TPDSW-WIRELESS-RTC 3-Phase Starter with Real-Time Clock & Water Level Controller

This advanced motor protection and automation system is designed to safeguard three-phase motors from common electrical faults such as overload, dry run, and phase loss, while also offering automated motor control based on a built-in Real-Time Clock (RTC).



Key Functionalities:

- **Real-Time Motor Scheduling** Allows users to preprogram motor ON/OFF cycles with up to 16 programmable time slots per day, including weekly off settings by day.
- **Comprehensive Motor Protection** Continuously monitors motor current via CT sensing, instantly shutting down the motor in the event of:
 - o Overcurrent (overload)
 - o Undercurrent (dry run)
 - o Phase loss
 - o Cable disconnection

The device displays the trip reason and current at the time of shutdown.

User-Friendly Current Settings Overload and dry run thresholds can be easily configured by the user.

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:

User can manually operate the motor, supported by alerts for tank status.

Motor OFF Timer

Option to automatically stop the motor after a predefined runtime.

Solar-Powered Wireless Transmitter

Requires no external power near the tank, featuring:

- o Low battery notification
- o Shockproof, weather-resistant, and robust construction



Technical Features & Specifications:

- **Inputs/Outputs:** R, Y, B phase input and output
- **Display:** Digital ammeter, voltmeter, error display, real-time clock
- **Relay:** In-built 30–40A high-quality relay
- **Control Modes:** Manual, cyclic, and fault bypass
- **Build:** Heavy-duty ABS enclosure with connector-type design
- **Indicators:** Motor ON indication and status LEDs
- **Battery Backup:** Maintains RTC without data loss
- **Installation:** Plug-and-play; compatible with existing starters
- **Sensor Tech:** Copper-based for rust and salt resistance

Smart Add-Ons

- **Solar-Powered Wireless Transmitter**
No wiring or power source needed near the tank.
- **Low Battery Alert**
Notifies users when the transmitter battery is running low.
- **Shockproof & Safe**
Built with advanced electrical filtering for safe, long-term use.
- **Durable Housing**
Sturdy HD ABS body and connector-based design for quick, reliable installation.
- **Advanced Copper Sensor Technology**
Ensures high sensitivity, rust resistance, and zero salt deposition for years of consistent performance.

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.

Ktronics TPDSW-WIRELESS-RTC offers a perfect blend of **automation, safety, and control**, making it the ideal solution for anyone seeking smart, **reliable motor management** without the need for internet or ongoing costs.