

# WIRELESS AUTOMATIC WATER LEVEL CONTROLLER



**Model No. WWLC-TX/RX**

Congratulations on selecting the **ALL ABOUT ELECTRONICS** Wireless automatic water level controller!

This unit provides you with fully automatic control of your water pump based on the water level in the tank.

**The product contains:**

- Transmitter unit ----- 1
- Receiver Unit ----- 1
- Sensors (Two sensors for overhead tank and two sensors for the bottom tank) ---- 4
- Screws with wall plugs ----- 4

**INDICATIONS:**

The Transmitter unit has three indication LEDs.

- POWER:** This LED indicates that the unit is powered on.
- PUMP:** It shows the status of the pump (whether the pump is on or off).
- SIGNAL:** This LED shows the status of connectivity with the receiver unit. If the Transmitter is connected to the receiver, then this LED blinks every second. If the connection is not established, then this light becomes off.

The Receiver unit has five indication LEDs.

- POWER:** This LED indicates that the unit is powered on.
- PUMP:** It shows the status of the pump (whether the pump is on or off).
- SIGNAL:** This LED shows the status of connectivity with the receiver unit. If the Transmitter is connected to the receiver, then this LED blinks every second. If the connection is not established, then this light becomes off.
- TOP TANK:** This LED shows the status of the Top Tank or Overhead Tank (whether the tank is full or not). If the tank is full, the LED glows; otherwise, it remains off.
- BOTTOM TANK:** This LED shows the status of the bottom tank or sump tank. If the bottom tank has enough water, the LED glows continuously; otherwise, it will start blinking.

**INSTALLATION:**

This wireless water level controller has a range of up to 1km in open line of sight conditions, but the actual range may vary depending on infrastructure and environment.

- Both the Transmitter and Receiver units work on a 230V AC power supply. There is no battery in either device.
- The Transmitter unit should be installed near the overhead tank where a power supply of 230V AC is available. Keep the transmitter device under the roof to protect it from water and direct sunlight.
- The Receiver unit should be installed near the motor starter because some control interfaces need to be connected with the motor starter.

**RANGE TEST:**

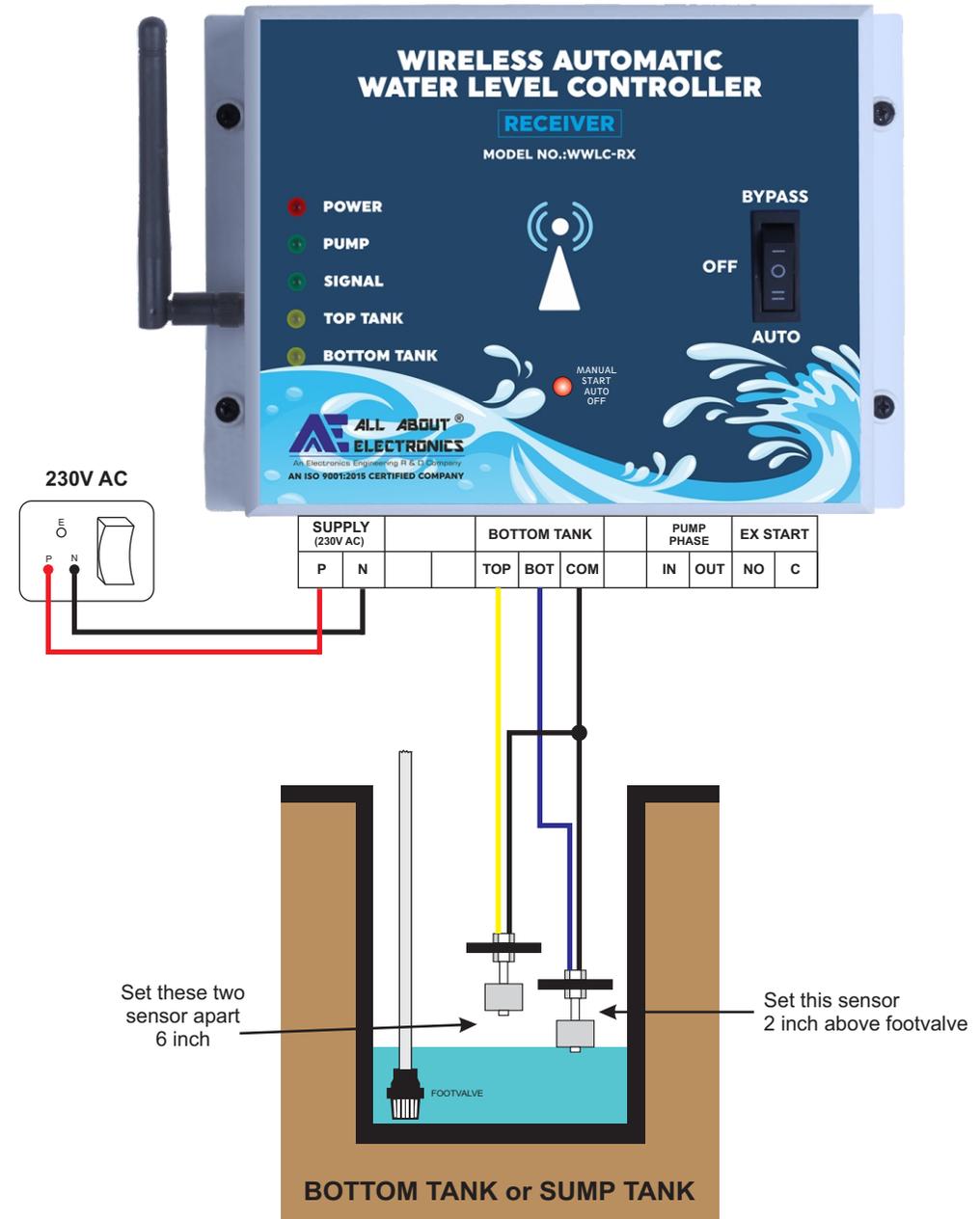
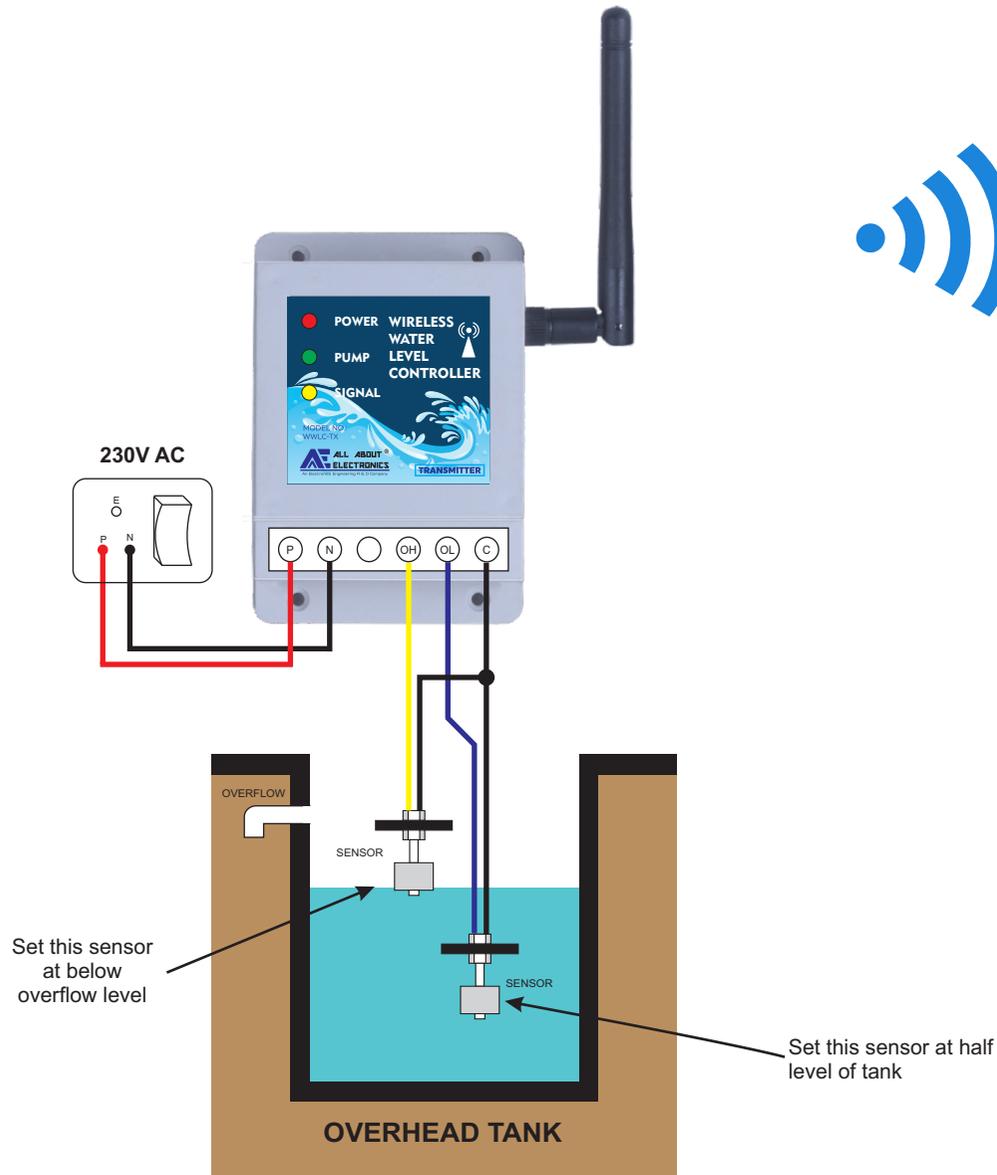
- The first step the user needs to perform is to check the range in their particular building.
- Before the range test, make sure that the antenna is attached to both devices tightly.
- To check the range, install the transmitter and receiver units as per the above instructions and check the status of the SIGNAL LED on both devices (transmitter and receiver). If the SIGNAL LED on both devices is blinking every 1 second, then both devices are communicating with each other perfectly.
- If the SIGNAL light on either of the devices is not blinking, there may be a connectivity issue due to obstacles. In that case, move the transmitter position to another place and check again.
- Once you get connectivity, you can make other wiring as per the provided diagram.

**OPERATION:**

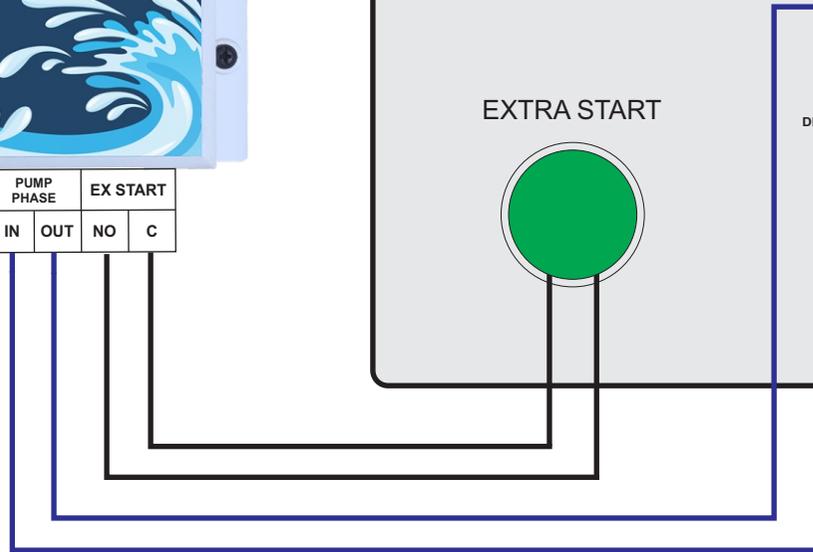
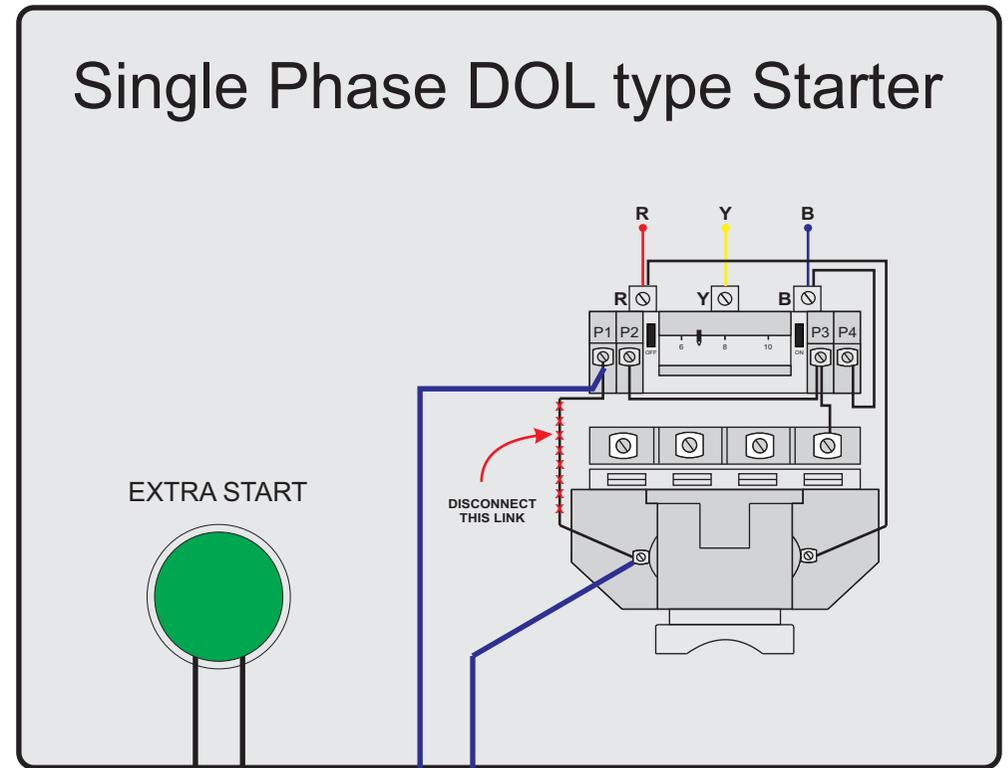
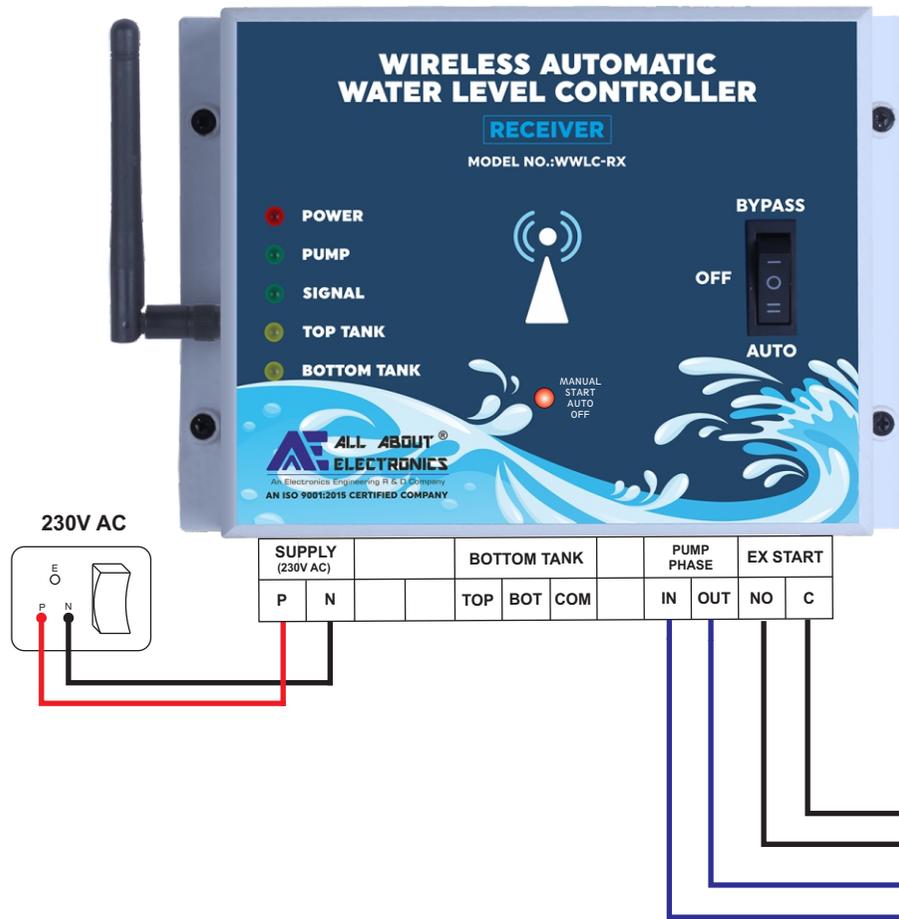
This automatic water level controller has three working modes.

- AUTOMATIC:** In this mode, the user needs to set the front operation switch to AUTO mode. In auto mode, the transmitter unit continuously scans the water level in the overhead tank and sends its data to the receiver. If the overhead tank's water level goes below the blue wire sensor (NC Sensor), it will send a start command to the receiver unit, and the receiver unit starts the pump. When the water reaches the top level (NO sensor), the transmitter sends an off command, and the receiver turns off the pump. This way, the water in the overhead tank is maintained.
- BYPASS:** In this mode, all sensors are bypassed, and the pump starts using its traditional method or using this switch only. Ignore all indication LEDs in Bypass mode.
- OFF:** In this mode, the pump remains off. Ignore all LEDs in OFF mode.
- Manual Start:** If the user wants to start the pump manually, there is a push button on the front panel. By pressing it, if the bottom tank has enough water, then the motor will start.

# Sensor Interfacing Diagram for Transmitter and Receiver



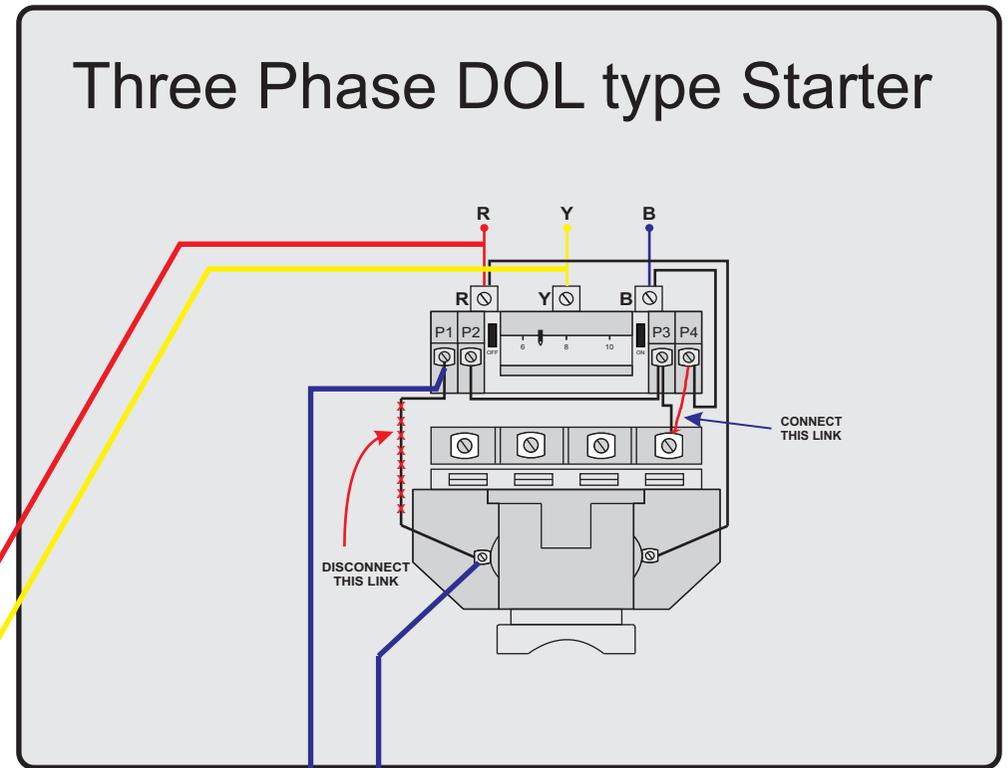
# Receiver Interfacing with Single Phase DOL Starter



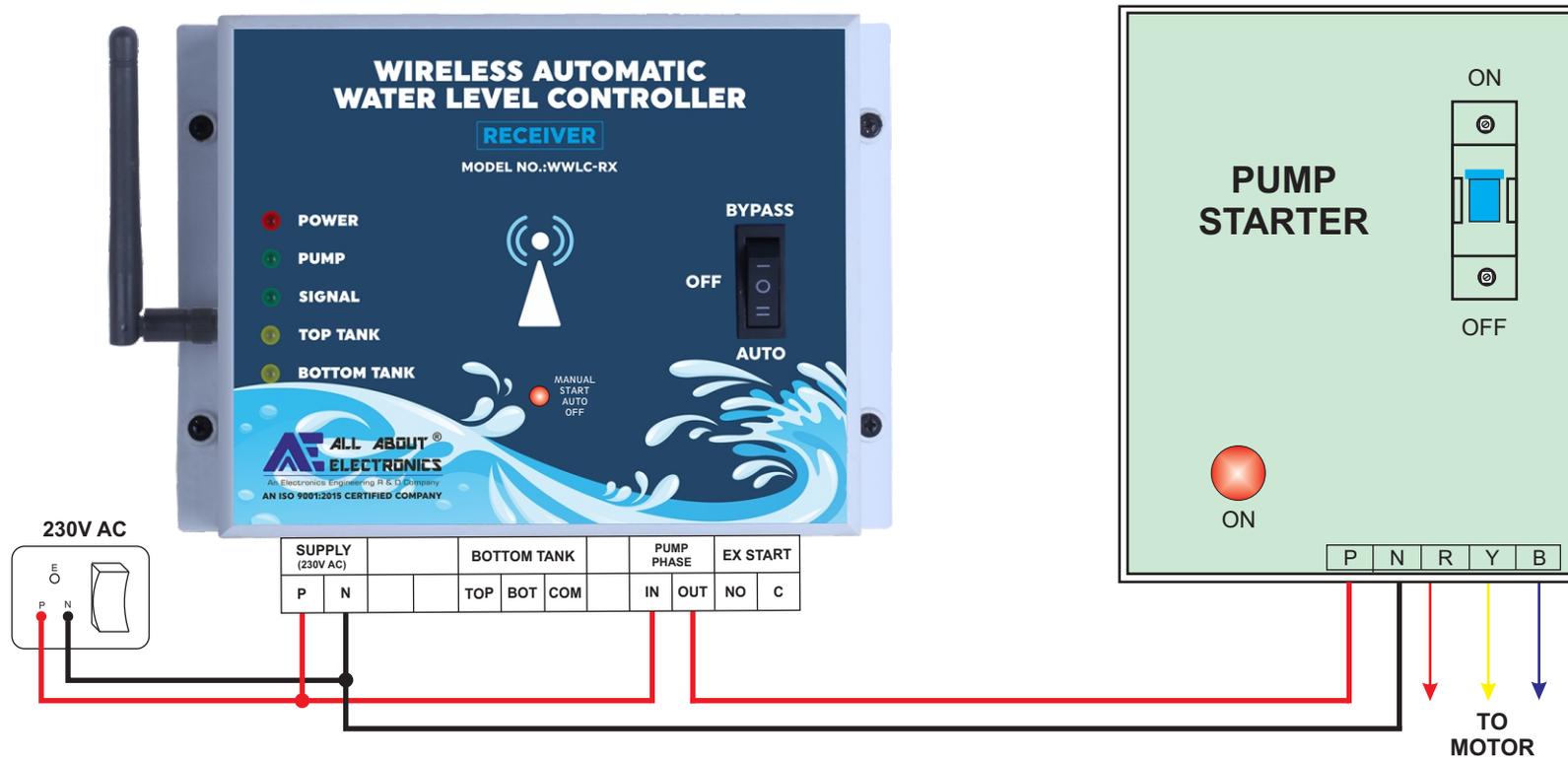
# Receiver Interfacing with Three Phase DOL Starter



SUPPLY (415V AC)		BOTTOM TANK			NV COIL	
R	Y	BOT	TOP	COM	NO	C



# Receiver Interfacing with Single Phase MCB Type Starter



Product improvement is a continuous process. For the latest information and special applications, please contact our office listed here.



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