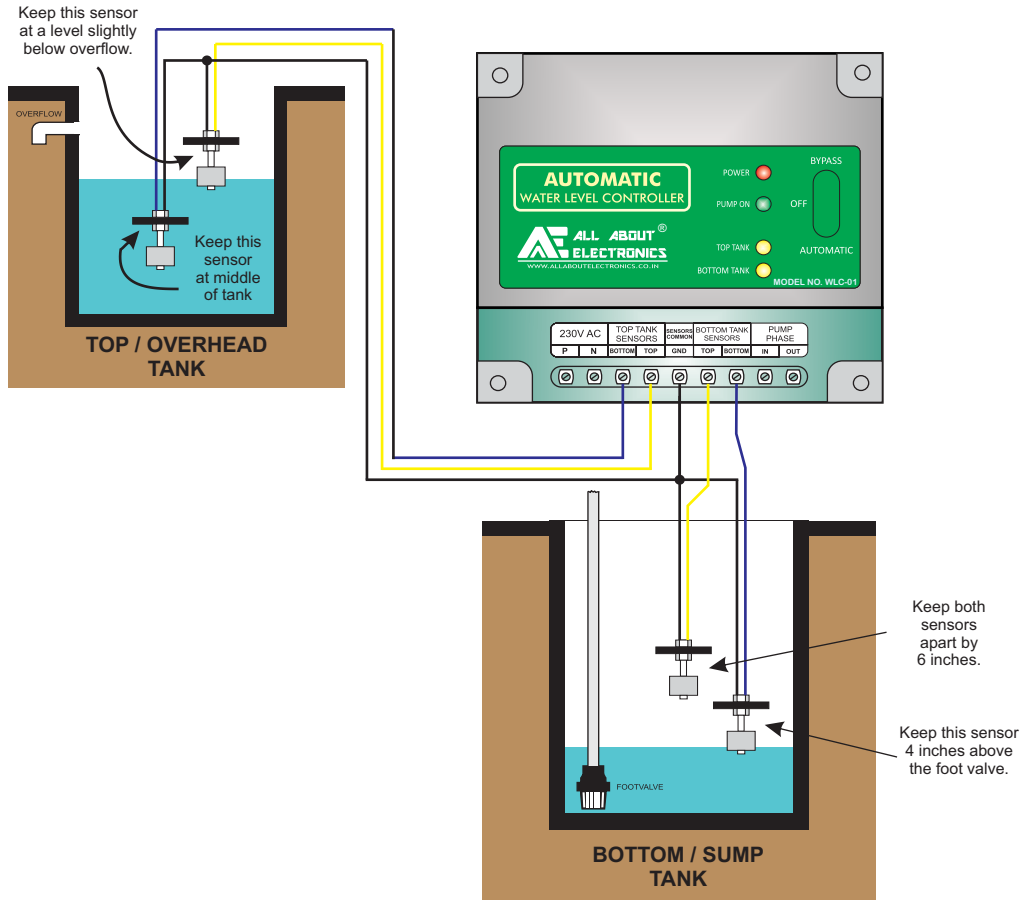


SENSOR INTERFACING DIAGRAM



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

AUTOMATIC WATER LEVEL CONTROLLER



MODEL NO.: WLC-01 STD

Congratulations on your selection of the **ALL ABOUT ELECTRONICS** 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:

- Automatic water level controller unit ----- 1
- Sensors (2 Nos. N.O. Type and 2 Nos. N.C. Type) Two sensor for each tank ----- 4
- Screws with wall plugs ----- 4

Indications:

There are four LED indicators on the water level controller unit.

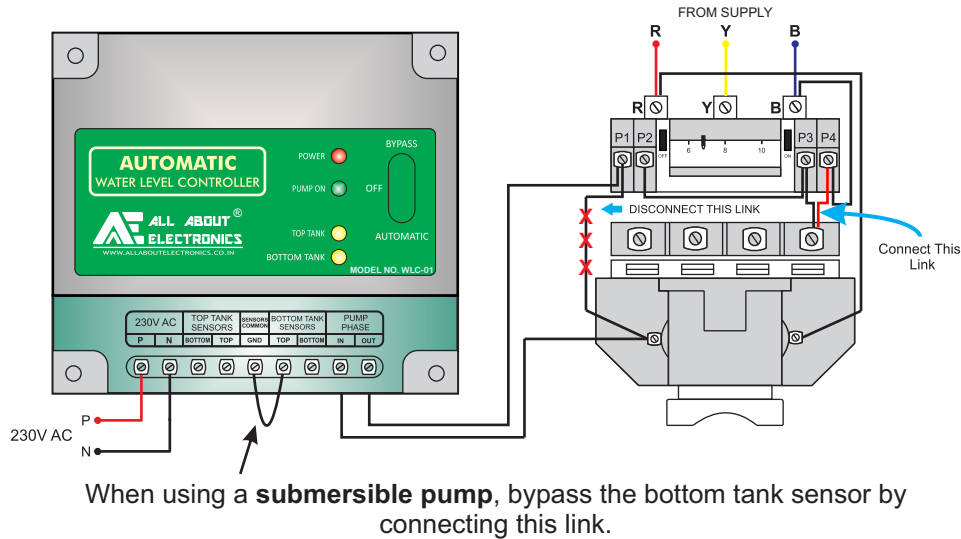
POWER: This LED indicates that the unit is powered ON.

PUMP: It shows the status of the pump (whether the pump is on or off).

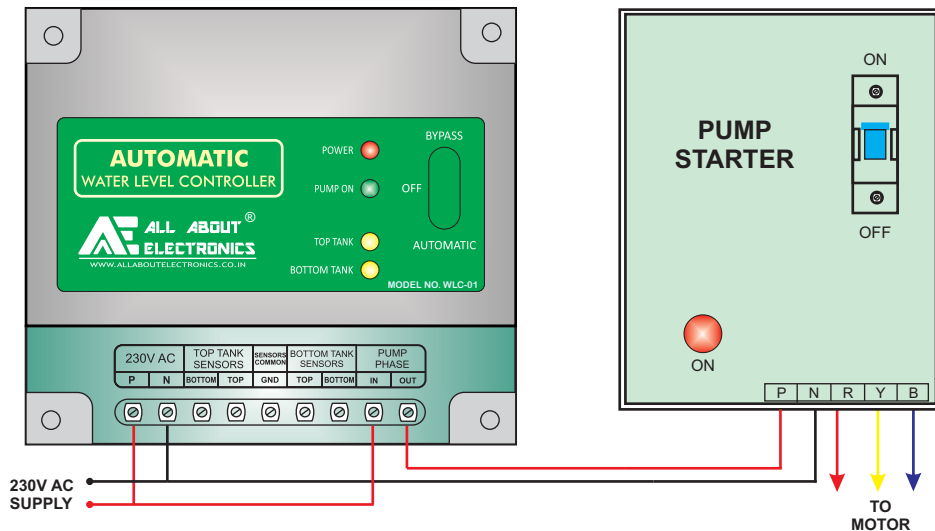
TOP TANK: It displays the status of the top tank.

BOTTOM TANK: When the bottom water tank is full, this LED continuously glows otherwise this LED starts blinking. When the water reaches the bottom part of the blue wire sensor of bottom tank, the motor will turn OFF if it was turned ON. The motor can only start again when the both sensors are submerged in water.

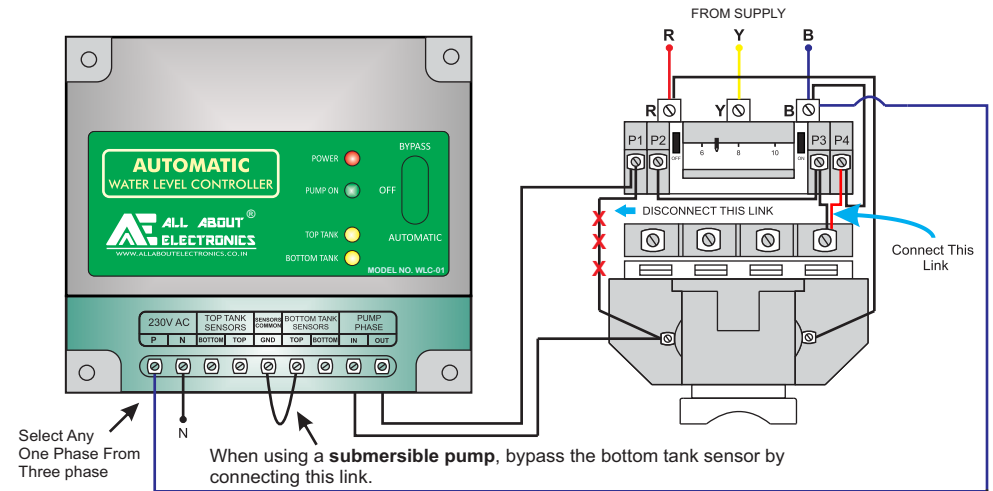
SINGLE PHASE OPENWELL / SUBMERSIBLE PUMP WITH RELAY TYPE D.O.L. STARTER WIRING DIAGRAM



SINGLE PHASE OPENWELL / SUBMERSIBLE PUMP WITH MCB TYPE STARTER WIRING DIAGRAM



THREE PHASE OPENWELL / SUBMERSIBLE PUMP WITH RELAY TYPE D.O.L. STARTER WIRING DIAGRAM



HOW THE SYSTEM WORKS:

The Automatic Water Level Controller operates in three working modes.

1. AUTOMATIC MODE:

To operate the system in automatic mode, the toggle switch must be set to the AUTOMATIC position. As the name suggests, in this mode, the motor's operation (ON and OFF) occurs automatically. The system detects the water levels in tanks based on sensors located inside the tanks. The upper tank is equipped with two sensors: one to detect an EMPTY tank (Blue Wire Sensor) and one to detect a FULL tank (Yellow Wire Sensor). When the water level in the upper tank drops below the bottom sensor, the unit senses it and activates the water pump. Similarly, when the water level in the upper tank reaches the level of the top sensor, the sensor sends an OFF command to the unit, which then turns off the water pump. However, each ON command for the motor considers the water level in the bottom tank. If the water level in the bottom tank is below the blue wire sensor's level, the unit will not activate the water pump. When new water enters the bottom tank, the motor will not start immediately; it will wait until the top sensor of bottom tank (yellow wire sensor) is fully submerged in water.

2. BYPASS MODE:

Suppose there is a technical error in the unit or sensor, causing a malfunction. In that case, the user has the option to switch the system to BYPASS mode. In this mode, the system's IN and OUT terminals are internally short-circuited, effectively bypassing the system. This allows the user to manually turn the motor ON and OFF using the traditional switch, switching between BYPASS and OFF, and vice versa.

3. OFF:

In the OFF condition, the contact between the IN and OUT terminals of the water level system becomes open. As a result, the pump remains turned OFF.