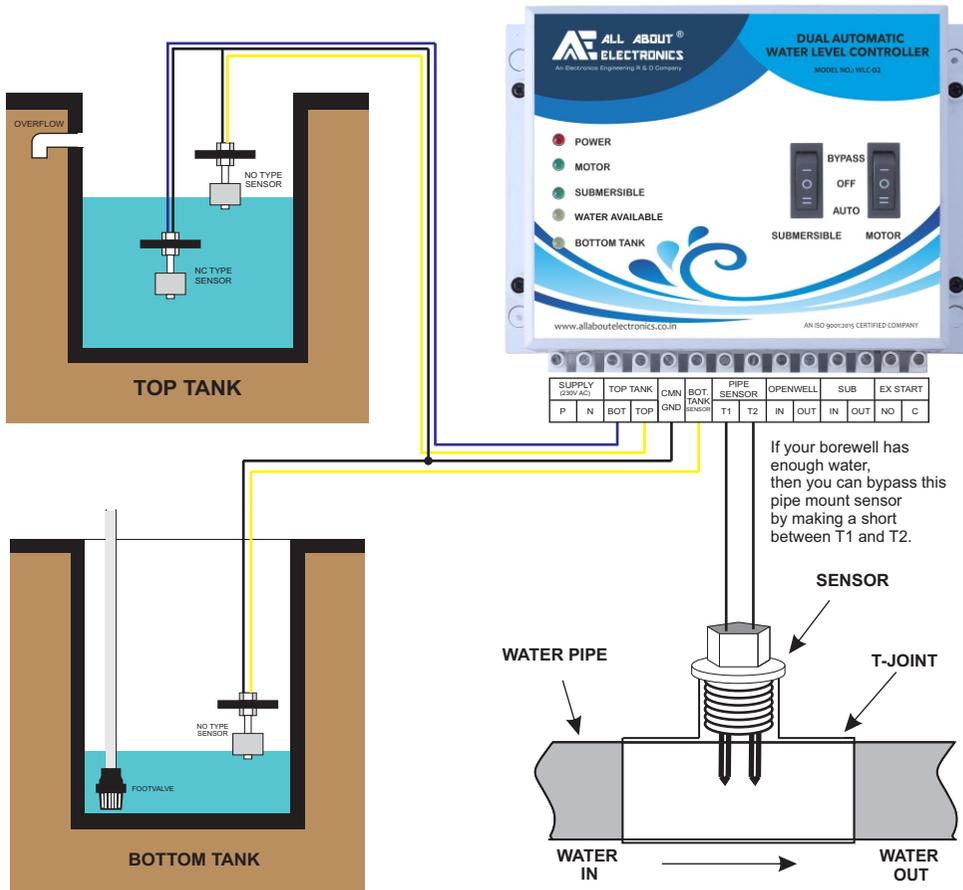


SENSOR INTERFACING DIAGRAM



DUAL AUTOMATIC WATER LEVEL CONTROLLER



MODEL NO.: WLC-02

Congratulations on your selection of the ALL ABOUT ELECTRONICS Dual Automatic Water Level Controller! This unit provides you with fully automatic control of your openwell pump and submersible pump based on the water level in the tank.

BOX CONTAINS:

- Automatic water level controller unit ----- 1
- Magnetic Float Sensors (Two for Overhead Tank and one for Sump Tank) ----- 3
- SS Contact Type Pipe Mount Sensor ----- 1
- Screw with wall plugs ----- 4
- User Manual for Product Installation ----- 1

INDICATIONS:

There are five LED indicators in the Dual Water Level Controller unit.

- **POWER:** It indicates that the unit is powered ON.
- **MOTOR:** It shows the status of the Openwell Pump (whether the pump is on or off).
- **SUBMERSIBLE:** It shows the status of the Submersible Pump (whether on or off).
- **WATER AVAILABLE:** It shows the availability of water when the Submersible is ON.
- **BOTTOM TANK:** It shows the status of the Bottom Tank, whether water is available or not.

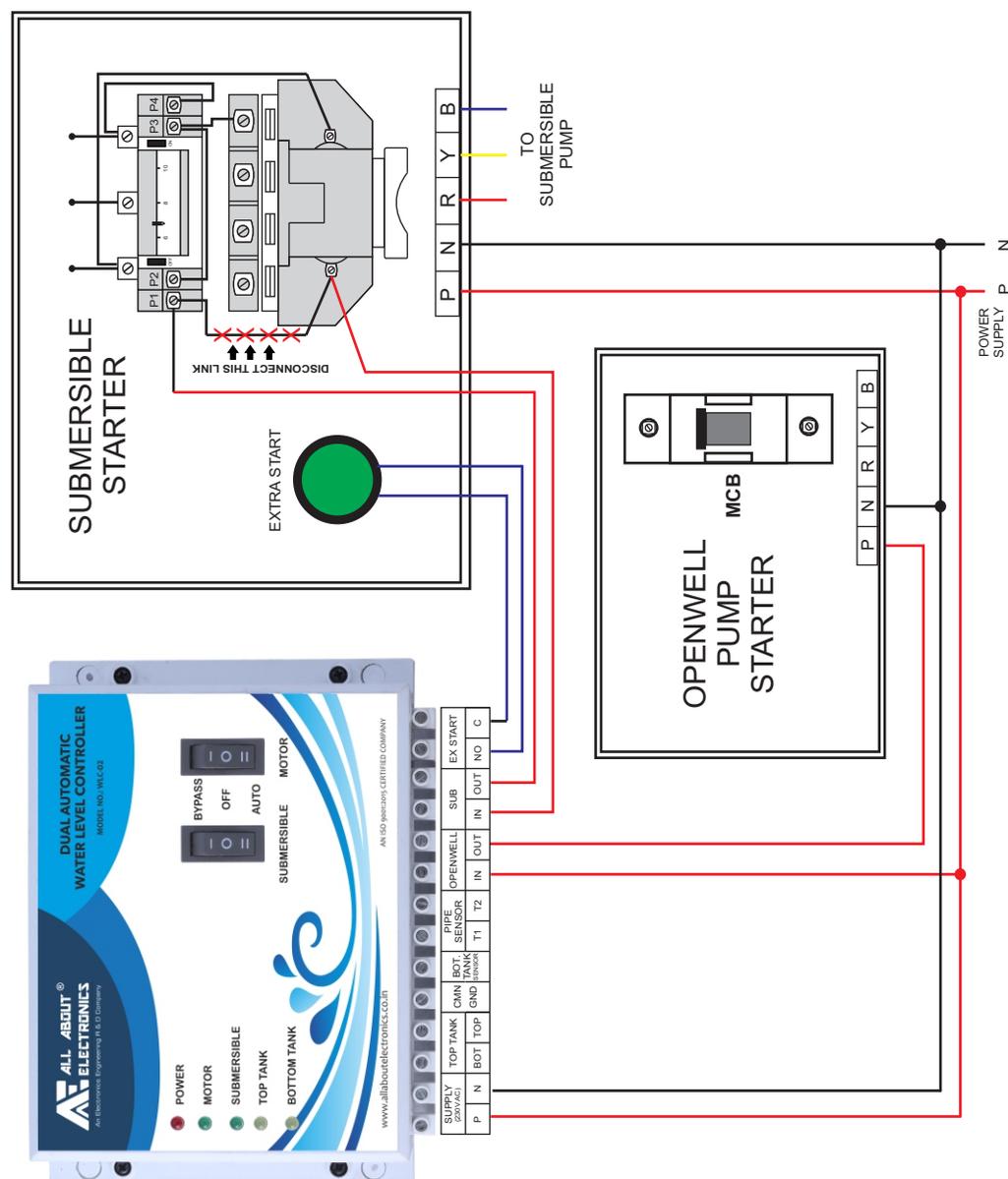
Product improvement is a continuous process. For the latest information and special applications, please contact our office listed here.



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BOTH SINGLE PHASE PUMP WITH SUBMERSIBLE DOL STARTER AND OPENWELL MCB TYPE STARTER WIRING DIAGRAM:



Note: More than 2HP Pump in this configuration can damage water level controller.

HOW SYSTEM WORKS :

This Dual Automatic Water Level Controller has three working modes.

1. AUTOMATIC MODE :

To operate the system in automatic mode, the rocker switch must be in the AUTO position. As its name suggests, in this mode, the motor and submersible pump turn ON and OFF automatically. It detects the water level in tanks based on sensors inside the tank. The upper tank contains two sensors: one sensor to detect an EMPTY tank (Blue Wire Sensor) and one sensor to detect a FULL tank (Yellow Wire Sensor).

When the water in the upper tank falls below the Blue Wire Sensor, it is sensed by the controller, and it turns ON the underground tank pump first. Similarly, when the water in the upper tank reaches the top sensor level, the motor will turn OFF the underground tank motor.

The underground water tank motor starts only if water is available in the underground tank. If the underground tank is empty, then the underground tank motor will turn OFF, and the Submersible Pump will start to fill the overhead tank.

When the overhead tank is filled from a submersible pump, the controller checks the water availability in the Borewell by SS Pipe Mount Type Sensor, which should be mounted inline as shown in the figure or at the pipe output (from water falling into the overhead tank).

When the submersible pump starts, the controller will wait for water up to 3 minutes. If, in 3 minutes, water does not touch the pipe mount sensor, then the controller will turn off the submersible pump, and the water available LED on the front panel will start blinking.

If water touches the Pipe mount sensor within 3 minutes, then the controller continues to run the submersible pump until the overhead tank becomes full. If, in between, the borewell water becomes empty, then the controller will turn off the submersible pump within 1 minute, and the front panel's available light becomes blinking.

For submersible pumps, an extra start function is provided, which is useful to provide extra start output for two seconds on every submersible pump startup.

2. BYPASS MODE:

Suppose due to any technical error in the unit or sensor, the unit may malfunction. Then the user has the option to switch the system to bypass mode. In this mode, the system's 'IN' and 'OUT' terminals of the MOTOR become internally short, and the 'IN' and 'OUT' terminals of the SUB become internally short, and the system will work as a bypass. So now the user can turn ON and OFF the motor and submersible pump using their traditional method.

3. OFF

In the OFF condition, the MOTOR and SUBMERSIBLE PUMP will turn off.