

USER MANUAL FOR SS - 22 WLC

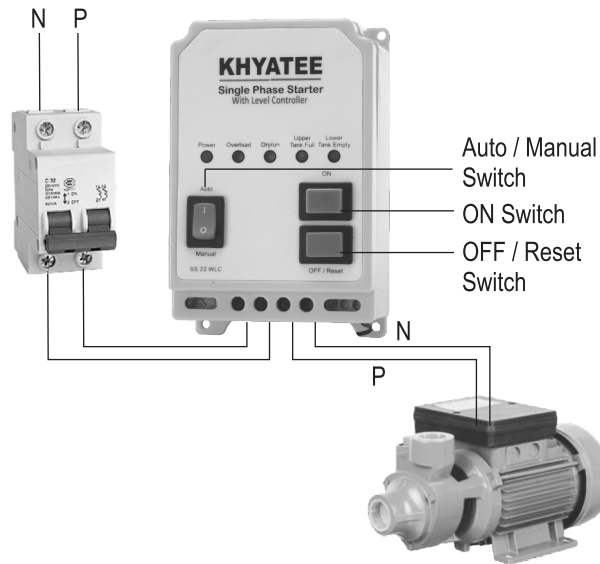
Khyatee Single Phase "SS - 22 WLC" with Two Tank Fully Automatic Universal Water Level Controller

Installation Operation and Maintenance Manual

Please read this manual to know all features, Installation, Operations and Programming Procedure in Step by Step manner

- 1. Installation:** It is recommended to connect 25 Amp. 'C' Series MCB before input connection of starter. First connect motor wires to output terminal, then connect supply to the input terminal from MCB output as shown in diagram below.

Motor Connection Diagram



CONNECTION DIAGRAM (When No Tank Sensors Connected)

UPPER TANK			INPUT		OUTPUT		LOWER TANK		
P1	P2	P3	P	N	P	N	P1	P2	P3
							Wire Link		

2. Pump Current Settings

A) Automatic Pump Current Setting: When first time you start the pump after connecting supply and motor wires to terminal software automatically goes in pump current setting mode, All five LEDs will flash 4 times and they will flash it again after 30 seconds to indicate that the pump current setting is completed.

B) Manual Mode Pump Current Setting: If you change motor due to any reason then you can do pump current setting manually just keep ON switch pressed for '5' seconds, all LED will blink 2 times and after 30 seconds they will blink once again to indicate pump current setting is completed.

Note: You need to do pump current setting only once,
a. If pump current is above the settable current range (16Amps) all LED blinks six times
b. If pump current is below the settable current range all LED blinks two times

3. Electrical Safety for Motor

This SS - 22 WLC provides electrical safety for your motor against Overload and Dry Running of the pump.

Pump Protection Setting

A) Dry Run Setting: Change Dry Run Settings only if required. Now combination of Dry Run and power ON LED will indicate dryrun percentage as per chart

Status	Power ON LED	Dry Run LED
65%	OFF`	ON
75% (Default)	ON	ON
85%	Blink	ON
Bypass	Blink	Blink

Change the dry run settings if required

1. Keep Switch in Manual Mode
2. Switch OFF the pump
3. Keep OFF Switch pressed till all LEDs blink twice
4. Now power ON and dryrun LED will show dryrun setting status as per last setting
5. To select new setting press ON switch till you get desired percentage as per chart before
6. Press OFF Switch again till all LEDs blink twice to save new setting or wait for 10 seconds till software automatically saves settings, now your setting is complete.

Chart for Default Setting

Parameter	Default	Range / Type
Electronic Starter	0.5 to 3 HP	1 to 16 Amp.
Overload	40%	Fix
Dryrun	75%	65, 75, 85%, BYP
Extreme High Current	26 Amp. \pm 1	Fix
Power On Timer	30 Sec. \pm 3	Fix
Trip Time Delay for Overload & Dryrun	15 Sec. \pm 3	Fix
Upper Tank full	5 Sec. \pm 3	Float Switch / Metal Sensors
Lower Tank Empty	5 Sec. \pm 3	

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4. LED Indications: SS - 22 WLC has five LED indications as below

- A. **Power:** Continues On = Power Present
Blinking = Pump ON.
- B. **Overload**
- C. **Dryrun**
- D. **Upper Tank Full**
- E. **Lower Tank Empty**

5. Switches

- A. **ON Switch:** To start the motor
- B. **OFF / RESET Switch:** To stop and reset the fault
- C. **Auto / Manual Switch**

A - Auto Mode: Water level controller will function automatically when switch in auto mode i.e when upper tank becomes full pump will stop and upper tank full LED becomes on.

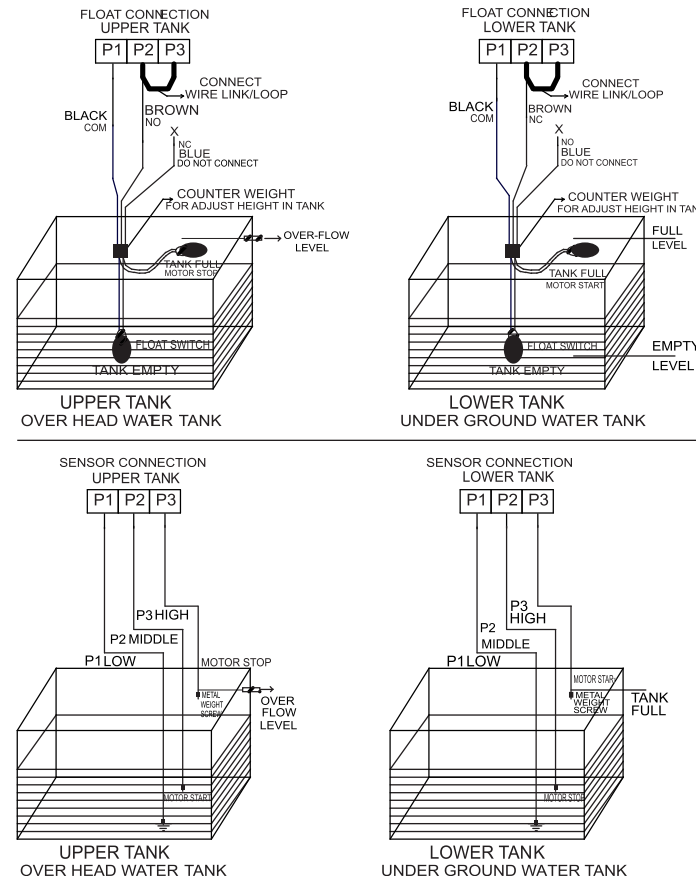
When upper tank becomes empty pump will start automatically if there is a water in lower tank. If lower tank is empty pump will not start even if upper tank is empty.

In auto mode pump will start automatically when power returns from failure after 30 sec. time delay if upper tank is not full and lower tank is not empty.

B - Manual Mode (WLC Bypass): WLC will go in bypass. You have to Start-Stop Motor manually.

6. Water Level Controller Wiring

Fully automatic two tank universal water level controller in which you can use float switch or metal sensors which can be connected as per diagram shown below

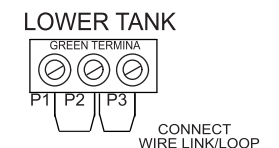


A. Both tank Automatic Functioning of Water Level Controller:

1. Keep switch in auto mode for automatic operation of both tanks.
2. To bypass WLC keep switch in manual mode that time you have to manually start and stop the pump.
3. When upper tank becomes full, pump will stop and upper tank full indication will becomes ON, when upper tank becomes empty it remains OFF and if water is present in lower tank then pump will start and fill the upper tank. but if no water in lower tank it will allow pump to start till water comes in lower tank.
4. When lower tank becomes empty motor will stop and lower tank empty LED will become ON.
5. It has automatic start for power failure also.

B. When No Lower Tank is used at Site:

1. Keep link between P1, P2, P3.



C. When No Upper Tank is used:

1. Then removed all links of upper tank terminal.



D. When Pipe Line Sensor is used:

1. Short P2 & P3 and connect one wire from pipe sensor to P1 & second wire to P2.

