

Liquid Level Controller

A-LLC-01



ALLC-01 is an electronic liquid level controller (LLC) that controls all types of motor pumps, automatically, to maintain the desired liquid level in the tank. It switches the pump ON/OFF considering the requirement of the water level on the overhead tank and safe level on the sump. In other words, it would ensure the water level on the overhead tank (low or high), and the sump water level (high or low) before switching ON the pump. It has got provision to sense the air lock and dry running and to shut down the pump within few minutes.

Although the controller and the sensors are designed for electrically conducting liquids like water, it could be used for other liquids as well, by modifying the sensors suitably. Fig.2 gives a brief explanation of the controller.



Fig.1 Liquid Level Controller

1. Product Highlights

- Controls the water level in the overhead tank automatically
- Switches ON the pump only if sump water level is safe.
- Protects motor from dry run/ High & Low voltage
- Saves water and electricity considerably
- Cost Effective
- Easily installable
- Both Overhead tank and Sump level indications
- Air lock protection
- Emergency switch ON

2. Applications

- Houses and flats
- Hotels and Hospitals
- Chemical plants
- Cooling towers
- Effluent treatment plants
- Pharmaceutical industries
- Beverages and Distilleries

** Extra features like driving higher capacity motor; 3-phase motor driving, overload protection etc. can be added as per the customer requirement.*

3. Mechanical dimensions of the box (in mm)

L × B × H: 120 × 120 × 62

4. Electrical connection diagram

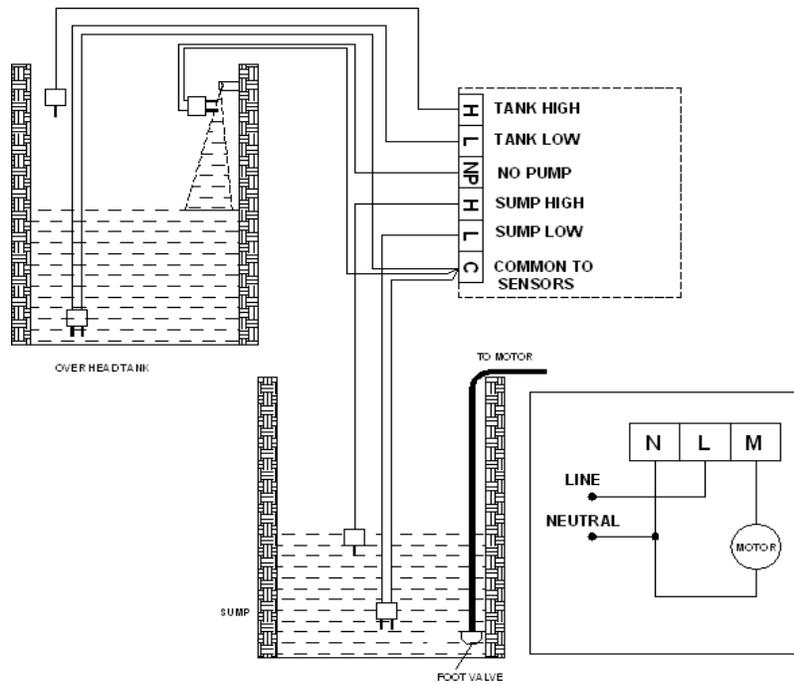


Fig. 2 Wiring scheme of the LLC

Short terms Used

- N-Neutral
- L-Line
- M-Motor
- H-High level Sensor
- L-Low level Sensor
- C-Common
- NP-No pump Sensor

Location of Sensors (Refer figure)

- Over Head Tank High Sensor-Just below the overflow pipe
- Over Head Tank Low Sensor- Just above the Outlet pipe
- No pump Sensor- At the mouth of the inlet pipe
- Sump High level Sensor-Above the sump low level sensor
- Sump Low level Sensor- Just above the foot valve
- Sump Common –Below the foot valve level
- Overhead tank Common-Below the Low level Sensor

5. Electrical specifications

Input Voltage (V AC)			Frequency (Hz)			Power consumption (VA)	O/P Relay rating (A)
Min.	Typ	Max.	Min.	Typ	Max.		Steady state
180	220	270	45	50	55	3	30

Fig 5.1 Electrical Specification

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