

WATER LEVEL CONTROLLER

"HYDROMATIC" WLC2A

SAVES WATER, FULLY AUTOMATIC WITH PUMP PROTECTIONS



REMOTE DISPLAY UNIT

- ▶ Fully Automatic operation for Water Level control of Two tanks.
- ▶ Built-in "Dry Run" and "Single Phasing" Protection for the Pumps.
- ▶ Low AC Voltage between Stainless Steel Probes to resist scaling, deposition & Rust.
- ▶ Auto/Manual and Pump 1/Pump 2 operation at the flip of a switch for emergency.
- ▶ Low Level & Safe Limit Indications for Underground & Overhead Tanks respectively.
- ▶ Adjustable Sensitivity to suit any kind of Water.
- ▶ Adjustable Dry Run Timing to suit any Motor capacity/building of any no. of floors.
- ▶ Can be used with either 1 Phase or 3 Phase Pumps of any capacity.
- ▶ Smart Looking Wall hanging Remote unit to display the Water Levels, Pump and Trip Indications to be placed at a Daily Viewable Convenient location.

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ABOUT HYDROMATIC ?

HYDROMATIC is a Water Level Controller used for Fully Automising the Pumping operations between Underground and Overhead tanks. HYDROMATIC will maintain the Water Level in the Overhead tank by starting the Pump Automatically when required. In short YOUR PUMPMAN for 24 hours, 7 days a week, 365 days a year to Avoid any Overflow of Precious Water.

PRINCIPLE OF "HYDROMATIC" OPERATION

HYDROMATIC operates on the principle of Electrical Conductivity. Sensing Prods are suspended in Water. Water acts as a conductive medium for current path between the prods. HYDROMATIC maintains the Water Level between the Upper and Lower levels in the Overhead tank. HYDROMATIC has a total of 8 prods. 6 Level Sensing prods (3 for each tank) and 2 Dry Run sensing prods. 3 prods in each tank consist of One Reference, One High Level and One Low Level. The Dry Run sensing prods are fixed onto the Water Inlet in the Overhead tank.

LOGIC WORKING OF HYDROMATIC OPERATION

HYDROMATIC shall start the Pump if Water level in the Overhead tank goes below its Low Level provided the water in the Underground tank is above its Low Level.

HYDROMATIC shall stop the pump if the water Level in the Overhead tank reaches its High Level or if the water in the Underground tank goes below its Low Level.

PROTECTIONS / ADDITIONAL ADVANTAGES OF USING HYDROMATIC

1. HYDROMATIC has a built in Dry Run protection. It protects the motor from Burnout in case the Pump does not suck water (due to some air leakage, faulty footvalve, etc.). HYDROMATIC has 2 Dry Run sensors by which it detects this Dry Run fault.
2. HYDROMATIC also has a in-built Single Phasing Protection. It trips the Pump incase any one of the three Input phases fail.
3. HYDROMATIC has Smart Looking, Wall hanging Remote display Unit (optional) to display the Water Levels, Pump, Trips, etc. It can be mounted at a Daily Viewable Convenient location.

WHO CAN USE "HYDROMATIC" ?

HYDROMATIC is ideally suited for Fully Automatic Pumping Operations between the Two tanks in places like Housing Societies, Apartments, Bungalows, Hotels, Lodges, Hospitals, Govt. Departments, Housing Colonies, Industries, etc. In short any premise that has that has an Underground tank and an Overhead tank.

HYDROMATIC can also be used for any Industrial application involving liquids other than water like Dairy (Milk), Pharma (Syrup), Food (Juices), Chemicals, etc. HYDROMATIC could be used for non conductive liquids like Diesel, Lubricating Oils, etc with the help of magnetic sensors.

SALIENT FEATURES OF "HYDROMATIC"

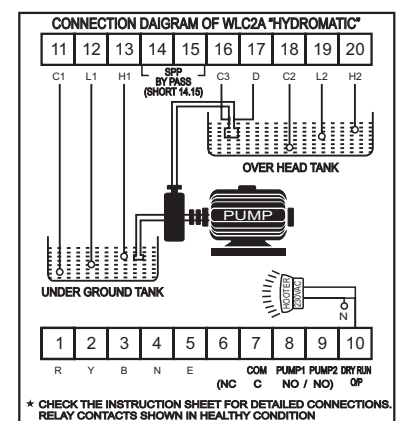
- ▶ Fully Automatic operation for Water Level control.
- ▶ Low AC Voltage between Stainless Steel Probes to resist scaling, deposition & Rust.
- ▶ Indl. Plastic Covering for the sensors for mechanical protection.
- ▶ Adj. Sensitivity to suit any kind of Water
- ▶ No restrictions on the length of Probe/Prod wire
- ▶ Output Connection to indicate / Alert in Dryrun Pump Trip.
- ▶ Smart Looking Wall hanging Remote unit to display the Water Levels, Pump and Trip Indications to be placed at a Daily Viewable Convenient location.
- ▶ Built-in "Dry Run" and "Single Phasing" Protection
- ▶ Auto/Manual and Pump1/Pump2 operation switchable in emergency
- ▶ Adj. Dry Run Timing to suit any Motor capacity & any no. of floors
- ▶ Can be used with either 1 Phase or 3 Phase Pumps of any capacity
- ▶ Sturdy Metal Body duly powder coated to resist rust

OPTIONS AVAILABLE

- ◆ Remote Unit for Display of Level, Pump and Trip Indications
- ◆ Pump Splitter for Alternate Pump Operation
- ◆ Float Switch type Sensors, Magnetic Sensors, I.R sensors

TECHNICAL SPECIFICATIONS

Auxiliary Supply Voltage	: 230V±20%, 50Hz		
• Power Consumption	: 7.2 VA		
• Input	: SS Prods with Industrial Plastic moulded covers		
• Max. Sensor cable length	: No limit	Resetting	: Automatic / Force Start
• Indications	: Power, Safe Limit, Low level, Pump, SPP trip, Dry Run trip		
• Auto/Manual & Pum1/Pump2	: Through Toggle Switch(s)		
• Sensitivity	: Up to 150KΩ	Dry Run Timing Adjust	: 0-240sec
• O/P Relay Ratings	: 5A@230VAC (Resistive)		
• Trip Settings	: According to the Levels of Sensors placed in Water		
• Trip Time Delay	: Less than 1.0 sec (for WLC) and 2.0 sec (for SPP trip)		
• Enclosure	: Metal (18 gauge) with Powder Coating		
• Mounting	: Wall Mounting		
• Physical Parameters		Dimensions (in mm)	Weight (in gms)
	Main Unit	200(h) x 200(d) x 165(w)	2720
	Sensor(Prods)	ø16 x 50	55
	Sensor(Dryrun)	ø9.5 x 40	20
	Remote Unit	96(h) x 60(d) x 96(w)	215



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