

# Water Level Controller



**A**jinkya Electronic Programmable Water Level Guard is a state-of-the-art instrument to control water pumps. It controls your pump as per levels in the overhead and underground water tanks and also guards your pump against power fluctuations. It is a novel solution, ideal for all your water problems.

Pump is switched On when overhead tank is empty. It is switched Off when either overhead tank is full or underground tank is empty. In addition to this it has the provision to switch pump On and Off automatically as per time of the day, as well. Just the way your pumpman does now!

It is this unparalleled combination of time and level control that helps you manage water supply effectively. As an additional feature one time dependent switch is provided to control your common society lights from the same unit. Have a look at the unique features it offers and the benefits you get from it...

## FEATURES

- **Fully Automatic Operation**

Pump is switched On/Off automatically as per level in the over-head and underground tanks.

- **Time Control**

Pump can be switched On/ Off as per time of the day. During programmed time interval the Guard will try to maintain overhead tank full.

- **Pump Protection**

The Guard has built in pump protection against

Under Voltage

Over voltage

Single Phase Failure

Phase Reversal

Protective feature of your starter are also retained since pump is operated through the starter.

- **Specially Designed Sensors**

Plastic moulded non-corrosive, non-conductive, low power and electrically safe specially designed sensors are used to sense levels in the tanks.

- **Multiple Pump Control**

Usually societies have a standby pump. The Guard can alternate between pumps so that none of them is kept idle.

- **Avoids Pump Oscillations**

Once underground tank gets empty, switching On the pump again is delayed to ensure accumulation of sufficient water. This avoids frequent switching of pump.

- **Automatic Switching of Lights**

Common Society lights such as staircase lights or loads like fountains, boilers etc. can be switched On/ Off automatically as per time of the day.



## Ajinkya Electronic Systems

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[www.dataloggersindia.com](http://www.dataloggersindia.com)

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## **BENEFITS**

- **No Manual Control Required.**
- **No Overflowing of Overhead Tanks.**
- **No Dry Running of Pumps.**
- Automatically shuts off the pump when level in underground tank is low.
- Maximum Utilisation of Incoming Water Supply
- Municipal water supply timings are fixed and limited. Time Control Helps maintain overhead tank full during incoming supply hours.
- Avoids Pump Running During Odd Hours
- Time Control can avoid pump switching during odd hours, say late in the night.
- No Water Shortage During Peak Hours
- Water usage is maximum during morning and evening hours. With everyone trying to draw water, there are chances of intermittent water supply during these hours. Time Control makes sure that the tank is full before peak hours and level is maintained later on.

## **SPECIFICATIONS**

- Microcontroller based circuitry
- Four digit bright LED display for time settings
- Soft touch dust proof membrane keypad
- Eight Programmable Timing steps possible
- Power Supply : 415 Volts 3 Phase AC 50 Hz or  
230 Volts AC for Single Phase Pumps
- Supply Protections: Under Voltage protection at 360 V  
Over Voltage protection at 460 V  
Single Phase failure protection  
Phase reversal protection
- Power Consumption: 10 VA
- Output Relay: 230 / 415 Volts 6 Amp resistive
- Starter Type: Can operate Direct On Line (DOL) or Automatic Star Delta Starters
- Size: 260 mm (W) x 160 mm (H) x 100 mm (D)
- Weight: 2 kg. approx.

## **MODELS**

- IM 1722 : Programmable START time, STOP time and On Duration
- IM1724 : Single Point Level controllers. To operate a pump to fill tank OR to operate pump to empty a tank
- IM 1726 : Single Pump Controller with 24 hour compensation
- IM 1727: Level Controllers with SMS alert
- IM1728 : Level controllers with upper as well as lower tank level sensing.



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