

RAIN MAIN AUTO

Automatic change over system from pumped water to mains water in case of low water level in tank or mains power failure

APPLICATION

System designed to normally supply tank water by a pump and automatically changeover to mains potable water supply, in case of low water level in tank OR 230V mains power failure. Audio-Visual warning will alert of low water level in tank for further remedial action.



ITEMS IN **RED CIRCLE** ARE INCLUDED IN RAIN MAIN PACKAGE
PUMP AND PRESSCONTROL ARE **NOT** INCLUDED IN RAIN MAIN PACKAGE

RAIN MAIN AUTO Cont...

TECHNICAL FEATURES

- Low level visual or Audio-Visual Alarm indication for low Tank water level sensed by float switch installed in tank.
- LED indication for “Power On” and “Mute” Switch available on Water Monitor to stop the buzzer sound only
Set of Volts free contacts for Remote Alarm or Building Management System (BMS)
- Safe Low Voltage (12V DC) control circuit for float switch and Low safe 24V AC coil Solenoid Valve
- System can be retrofitted to existing ground mounted or submersible pump up to 1.5 kW, 230V, 1Ph ratings

INSTALLATION DETAILS

- A 10m float switch (supplied loose) to be correctly installed in the tank.
- Water Monitor unit (supplied loose) to be installed in a **weatherproof location** to be seen to be seen & accessed easily for operation & maintenance.
- Mains water connection to be connected to system.
- A non return valve & solenoid valve together offers double check system however **any back-flow prevention system required as per local rules & regulations to be arranged & installed by others.**

ELECTRICAL CONNECTIONS

The following electrical connections to be carried out on site.

- 230 volt, 1 phase Power supply to Water Monitor from a suitable power point
- 230 volt, 1phase Power supply to pump from Water Monitor
- 24 volt AC power supply to Solenoid Valve from Water Monitor.
- Connections of correct wires from Float switch to Water Monitor.

HOW IT WORKS

When water level in tank reaches the pre-determined low level and closes the float switch contacts, Water Monitor will do following actions,

- The Low Level LED will glow and audio buzzer will activate.
- The 230V power supply to will be disconnected stopping water supply by pump from tank.
- The 24V AC power supply to solenoid valve will stop there by opening the solenoid valve & supplying mains water to amenities.
- The volts free contacts in the Water Monitor will close giving signal to remote alarm or BMS system if connected.
- All conditions automatically reset to original state when the level goes back to normal