

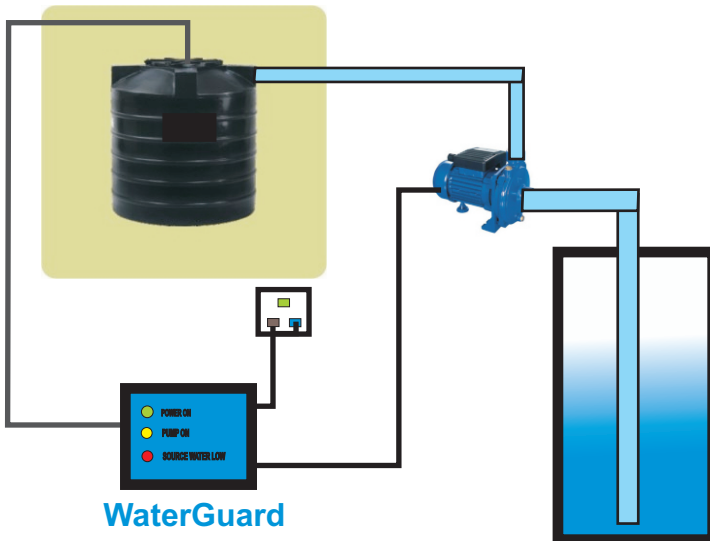
# Eternics Ltd.



*Quality Electronics till Eternity*

Ghana's **ONLY** provider of **EXCELLENT** water system automation services

Manufacturers of **HIGHEST QUALITY Automatic Water Pump Controllers** for automating water pumping process in hostels, homes, hotels, industries, offices and many more...



## **AUTOMATIC WATER LEVEL CONTROLLER –WaterGuard®**

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## **AUTOMATIC WATER PUMP CONTROLLER : WaterGuard®**

This device automatically maintains the water level in tanks between 2 user-defined/adjustable limits (upper and lower limits).

Whenever the water level in the tank goes below the lower limit, the device starts an electric water pump to fill the tank. The pump is stopped when the tank gets full.

The device can be installed with the option of monitoring the source of water to make sure the pump is not turned on when there's no water available to be pumped. This protects the pump from burning out when it's running dry.

### **ADVANTAGES OF USING WaterGuard®**

- 1. REDUCED ELECTRICITY BILLS** (pump does not waste electricity spilling water when the tank is full )
- 2. REDUCED WATER BILLS & WATER CONSERVATION** (no water is spilled and wasted)
- 3. PUMP LASTS LONGER** (pump does not overwork itself pumping water into an already full tank. It undergoes less wear and thus lasts longer)
- 4. VERY CONVENIENT** (No longer does the tank have to be monitored continually till it begins spilling water before it can be turned off. No more worries about water running out when it is most needed e.g. while one is taking a shower)
- 5. EASY AND QUICK TO INSTALL** (30 minutes to 2 hours)
- 6. NO MAINTENANCE COSTS**
- 7. NO WETTING OF SURROUNDINGS** (tank can even be placed indoors)
- 8. ENERGY EFFICIENT (uses less than 1 watt !)**
- 9. USER-DEFINED/ADJUSTABLE UPPER AND LOWER LEVEL FOR SENSOR**
- 10. MULTIPLE TANK CONTROL POSSIBLE** (WaterGuard® can control many water tanks connected to one pump)
- 11. PUMP IS PROTECTED FROM DRY RUNNING** (WaterGuard will not turn on the pump if there's no water in the source tank/borehole to be pumped)

## SYSTEM LAYOUT

Upper and lower level sensor →

## INSTALLATION PROCEDURE

- Insert sensor into tank
- Connect sensor's cables to the WaterGuard®
- Connect WaterGuard® to the water pump. Switch on the **AUTOMATIC SWITCH**
- Turn on Mains power to WaterGuard®

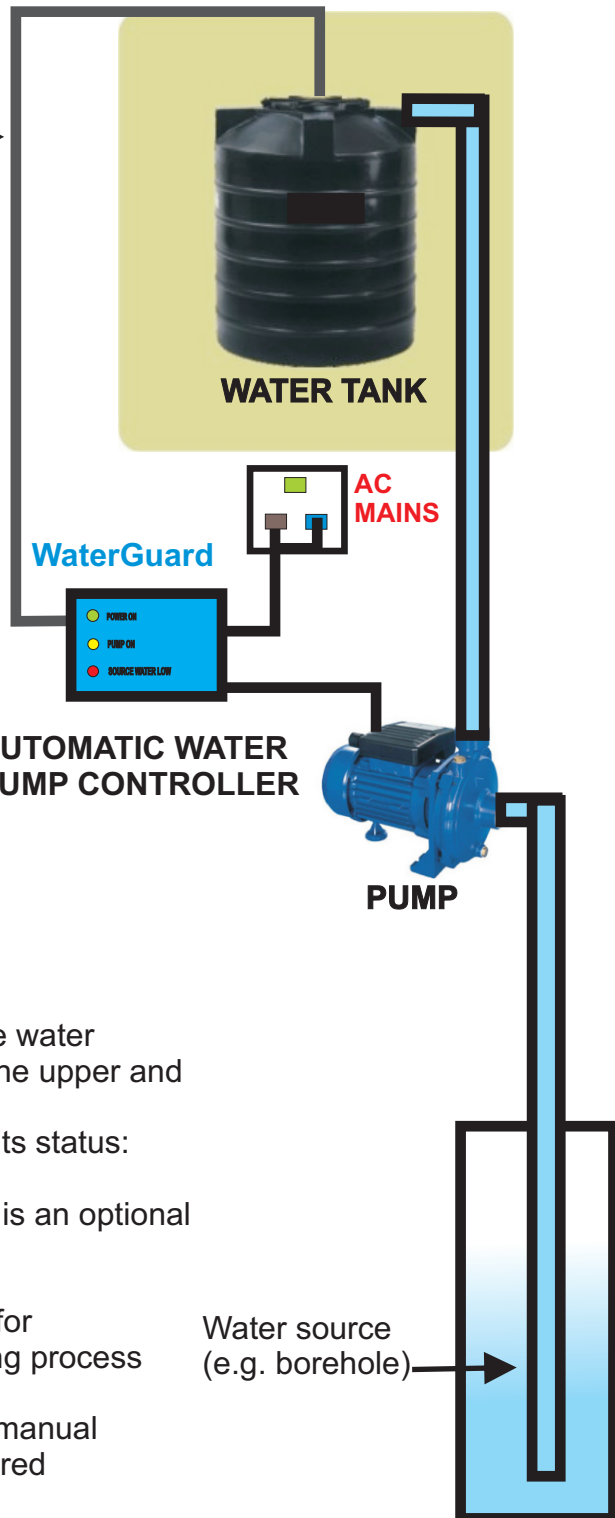
### • **NOTE**

The **MANUAL SWITCH** should be **OFF** if **AUTOMATIC SWITCH** is **ON** and vice versa

## FEATURES

WaterGuard® has:

- **1 sensor** connected to the water storage tank. This monitors the upper and lower water levels
- **Indicator lights** showing its status:  
**Power On and Pump On**  
(**Source Water Low** indicator is an optional feature installed if needed)
- **2 switches:**
  - **Automatic Switch:** for automating the water pumping process
  - **Manual Switch:** for manual control of the pump if so desired



## What do our customers say of “WaterGuard”, the automatic water pump controller?

- Very good product. Now I never have to worry about water problems at home again! – **Mr. Kafui Amegashie, ECKA Engineering Ltd., Accra**
- After installing this device my problems have been solved. Thank you Eternics Ltd for such a great product. – **Mr. Richmond Nana Takyi, Applied Biologist, Accra.**
- Ever since I installed the water controller, my family has never had any water shortage or overflow. What a helpful machine! – **Mrs. Vivian Addo, Kotei, Kumasi**
- Since we installed this device, the students in our hostel have never complained of water shortage. The tank has also never overflowed. Thanks to Eternics Ltd’s great product, my life is now better. – **Charles Amponsah, Manager/Caretaker, First Class Hostel, Kumasi.**
- Gone are the days of water wastage and huge electricity bills due to my pump wasting electricity and spilling water when the tank was full and no one was around to turn it off. Now with this wonderful device all my worries are gone!! - **Mrs. Osei, Hostel Owner (Apex Hostel), Kotei, Kumasi**

## DEVICE SPECIFICATIONS

Input Voltage: 240 V AC (RMS), 50 Hz

Circuit Voltage: 5 V DC

Max. Pump Rating: 20 A, 240 V AC (RMS)

Power Consumption: Less than 1 W



### CAUTION !!!:

Although the Automatic Water Pump Controller is engineered to meet strict safety standards, it is strongly advised to **turn it OFF first (both Automatic and Manual switches off, and MAINS power to the device)** before the water tank is opened for future cleaning etc. If unsure of what to do should one want to do some work inside the water tank, please call Eternics Ltd. first.