

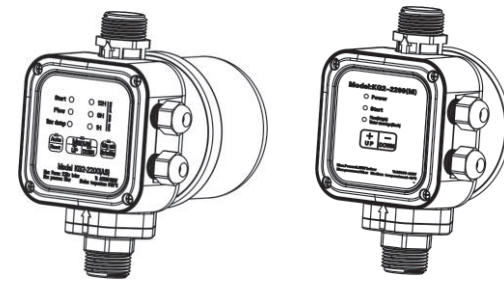
## Warning

1. The pump automatic controller can not be used in medical treatment or in the system which will cause serious personal injury or property loss in the event of failure. The manufacturer and distributor of the controller shall not be liable for any direct or indirect loss, other than the controller, which may be caused by the controller at any time to the maximum extent permitted by law.
2. There is no part of the controller itself that can be repaired by the user. Maintenance must be done by a person with relevant technical qualifications. The control box can be provided as spare parts.
3. When connecting the controller, power supply and water pump, the three core return cable must be used. To ensure safety, the ground wire must be connected correctly.

# Instructions

( Please read the instructions in detail before use)

## Smart controller



KG2-2200 (AS)

KG2-2200 (M)

### Product technical parameters :

Power:0-2.2kW V:AC90-260V Maximum Frequency :50/60Hz  
 Application of lift :0~100m Maximum working pressure :1Mpa  
 Maximum service temperature :80°C Current :10A  
 Interface thread: 1 "external thread"

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### Characteristic :

The pump controller has stepless pressure regulation intelligent pressure identification, suitable for various pressure environment applications of pump control equipment. It can completely replace the traditional system composed of pressure tank, pressure switch, water shortage protection device, check valve, four-way, timer and so on.

### Smart stepless voltage regulation function :

#### KG2-2200 (AS)

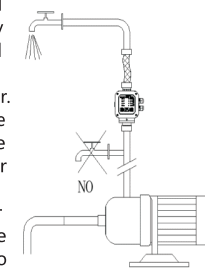
Apply to 0-100m head height environment, with pressure tank, plug and play, tap water pressure fluctuation intelligent pressure regulation, water shortage protection, tap water self-start, water tower timing mode, 24-hour intelligent detection start anti-jam impeller, manual mode adjustment can avoid the frequent start caused by pipeline leakage, pressure tank buffer water hammer anti-leakage frequent start-up protection, lightning protection, over and under pressure protection.

#### KG2-2200 (M)

Suitable for 0-100m head height environment, manual adjustment of starting pressure, water shortage protection, water automatic start.

### Install :

1. The controller shall be installed by a qualified person who knows the general mandatory safety rules to be followed in the installation of electrical appliances.
2. This controller can only be used in clean water. Users should check the water source of the pipeline system before installing it. If the water source contains iron sand or iron oxide, the controller will fail after a period of time.
3. Users should install a check valve at the water source of the pump and test the pump before installing the controller to ensure that there is no problem with the pump.
4. The controller is connected to the water outlet side of the pump, but the tap can not be installed between the controller and the pump. The tap should be connected after passing the controller.
5. Be careful not to leave glue or other foreign bodies inside the controller during installation. This will make the controller invalid. After installation, the controller must be perpendicular to the horizon, As a picture:

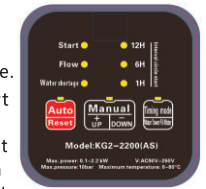


6. It is recommended that the user prepare a dedicated two bit switch or socket for this controller and pump. The user should use the three core cable with a diameter of 6.9mm3x1.0mm2 to connect the power supply, controller and pump. Do not use the test line attached to the controller. Before using, the user should ensure that the power of the input controller is in conformity with the specifications. In order to prevent water from entering the controller, the nuts on the inlet and outlet lines and the four screws on the operation panel must be locked after the wiring is connected.

### Startup and operation:

#### KG2-2200 (AS)

1. "Auto" / "Reset" key: The factory is intelligent mode, and plug in can start and stop normally. Water shortage is reset to re-enter intelligent state.
2. Manual key: ① Frequent start-up due to short pipeline or serious leakage, You can intervene manually, Press "DOWN" button to reduce frequent start. ② Pump selection or controller installation height is not correct, Open the valve and do not start the pump, Please press the "UP +" button continuously until it starts. (Note: manual setting also has automatic function, and no automatic reset key can be pressed. )
3. Timing key : The water tower is regularly replenishment, full automatic stop, and the pump will start automatically after the interval is set. (Note: the water tower must be fitted with ball valves.)



#### KG2-2200 (M)

1. "UP+ " key: High Floor Water pump does not start, please press "UP+ " key repeatedly until start, then.
2. "DOWN- " Key: shut-off Valve appears one open and one stop, please press "DOWN- " key repeatedly until the phenomenon disappeared: and repair the pipeline or import check valve is caused by leakage.



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