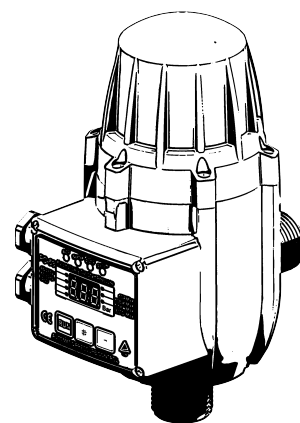


# AUTOMATIC PUMP CONTROL

## User manual

please read the manual carefully before use



### TECHNICAL DATA:

Rated voltage:AC85-265V Frequency:50/60Hz Max.current:10A  
 Max.Power:1.1KW Protection Degree:IP65 Max.Liquid temperature:60°C  
 Inlet & outlet: G1" male Max. Working pressure: 9.8 bar Starting Pressure:0.5-6 bar(adjustable)

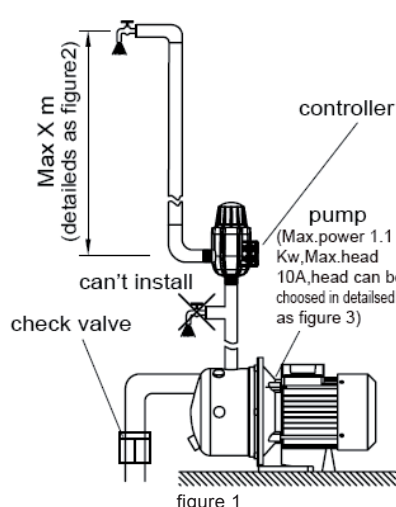
### FEATURE:

The water pump automatic controller is a fully electronic intelligent water pump equipment, it starts and stops the pump according to the detected data of the water state, pipeline water consumption, pipeline pressure variation. It completely replaced the traditional water supply system consisting of pressure tank, pressure switch, water shortage protection device, check valve, four way, etc. The live parts completely isolated from the pipe and the control box with high sealing makes the controller be more safety compared with the traditional system. Integrated design can save more time and materials for you during installation.

Compared with the traditional electronic pressure controller, it has the following outstanding features:

- Using the new pressure sensor technology, the digital tube can shows the real-time pressure of the pipe.
- Integrated with two work mode, it adjustable by the button to meet the different applications.
- It has automatically force start function in order to prevent the water pump get stuck when long time no-use
- The starting pressure adjustment range is wide, pressure difference is small, and corresponding pump minimum head requirement is low.
- Built-in automatic function, can be used for the pumps that the head between 10m-98m, no need manual set starting pressure, the controller can automatically adjust the starting pressure according to the pressure in the pipe, avoid the problem occurred because of wrong set starting pressure.
- With the function of over-pressure protection.
- Automatically start after water shortage.
- Wide voltage work, suitable for the voltage of the most countries in the world.

### Installation



1.The pressure control should installed by the people who has the relevant qualifications, because they know the electrical appliance general mandatory safety rules that must be complied with  
 2.The pressure control can be used in clean water only, so that the users should check the water source of the pipeline system before installation, if there any iron ore or iron oxide in water, will make the pressure control have problem after a period of use.  
 3.The pressure control should be installed on the high quality water pumps, users should install a check valve on the water source of the water pump, and test the water pump before installing the pressure control to be sure that is no problem with the water pump.  
 4.The pressure control can be installed directly on the water pumps, or be installed between the first faucet of the pipeline and the water pump. If the pressure control is not installed directly on the water pump, can not install the tap between the pressure control and the water pump. The direction of the water flow must be same with the arrow on the pressure control. Users should use the soft pipe to connect the outlet of the controller with other pipe. Be attention that do not leave the glue or other foreign body in the controller in the process of installation, to avoid the controller be no working. The controller must be vertical with the horizon line after installation, and the distance from the highest position faucet to the vertical distance of the controller outlet should be no more than X meters(see figure 2 for details), for the installation please refers to the figure 1, and the connection line refers to figure 3

starting pressure(bar)	the distance between controller and the highest tap no more than(m)	theoretical value of the pump min head(m)	suggestive value of the pump min head(m)
1.2	12	13	17
1.5	15	16	20
2.2	22	23	27

figure 2

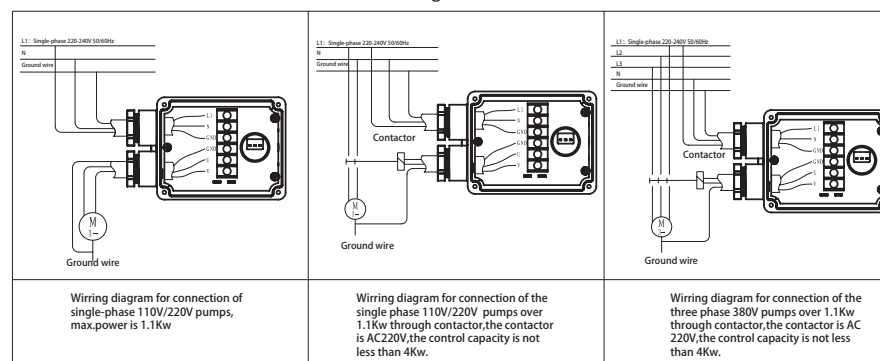
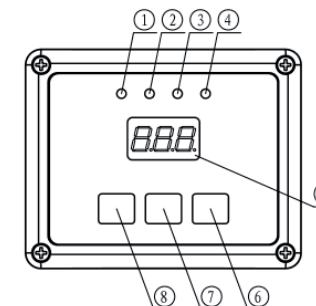


figure 3

### Function instruction



Serial No.	Name	Function description
①	Automatic mode indicator light	The light always on indicates that the controller is in automatic mode, there is no need to set the starting pressure, this mode is recommended.
②	Normal mode indicator light	The light always on indicates that the controller is in normal mode, users can manually set the starting pressure under this model, starting pressure range:0.5-6.0bar
③	Pump work indicator light	1.The light always on indicates that the pump is working. 2.The light off is indicates that the pump stopped.
④	Water shortage indicator light	1.The light always on indicates that the water shortage or other failures. 2.The light off indicates that the water supply is enough. 3.The light flash indicates that the pump stopped because of the water shortage, and it will restart immediately.
⑤	Digital tube display area	1."000" indicates the real-time pressure 2."L00"indicates the starting pressure value 3."P--"indicates the Over-pressure protection
⑥	"-"key	The parameters can be reduced
⑦	"+"key	The parameters can be increased
⑧	Manual start key	Press this button to restart the pump after the pump stop

### Debug setting and operating instructions

- Set work mode:
  - Under the automatic mode: the automatic indicator light on, press the "RUN" button first, then press "+" button a while, holding both button on 3 seconds, to enter the normal work mode, at this condition, the automatic indicator light off, the normal indicator light on.
  - Under the normal mode: the normal indicator light on, press the "RUN" button first, then press "+" button as while, holding both button on 3 seconds, to enter the automatic work mode, at this condition, the normal indicator light off, the automatic indicator light on.
- Set start pressure:
  - Under the automatic mode, no need to set start pressure, the controller will automatically adjust the starting pressure according to the pressure of the pipeline.
  - Under the normal mode: press "+" or "-" button for 2 seconds can enter to the start pressure setting interface, when digital tube twinkle display "L00", press the "+" key to increase, press the "-" key to reduce, after finished set, short press "RUN" or wait for 8 seconds to save the data and enter to the normal work interface.
  - The controller has memory function after power off, the controller will remember the pre-set start pressure or work mode, when the power on.
  - Under the working interface, press the "RUN" key first, then press the "-" key as while, holding both key can query the start pressure value.
- Digital tube indicates "P--" and the light flashing, mean the pump stopped because of over-pressure, the water pump will automatically restart one time after 30 minutes.
- When the water shortage (Haitun)light flashes, mean the pump stopped because of water shortage, in this condition, the pump will restart automatically, the time is 1 minute,30 minutes, 1 hour, then 1 hour recycle.

### Possible operating troubles:

Failure phenomenon	For controller	For other reason
The water pump doesn't start	1. The controller is damaged; 2. Pressure sensor is damaged; 3. Enter to the parameter adjustment interface;	1. The voltage is not within the controller's requirements; 2. Failure of the pump; 3. Faulty wiring connection;
The water pump doesn't stop	1. The controller is damaged; 2. Check valve is stuck;	1. There was a lot of leakage in the pipeline 2. Clean water contains iron ore or iron oxide.
The water pump intermittently work	1. The controller is damaged; 2. Start pressure set high not match with the pump request under normal mode;	There was a lot of leakage in the pipeline
The water shortage light flashes	The controller is damaged;	1. Water shortage; 2. Water pump damage; 3. Water pump inlet leakage; 4. Under normal work mode, the pump head is less than the starting pressure; 5. Connection part between the pump and controller is damaged;
Display code"P--"	1. The controller is damaged; 2. Pressure sensor is damaged;	The real pressure of the pipeline more than 10bar at least on 1 hour.

### Advice

- Automatic mode is recommended, to avoid pump not start in the case of manual setting pressure does not match with the pump head under the normal mode.
- In some special conditions, under the automatic mode, if pump do not start after open the tap, can switch the automatic mode to normal mode, and set the start pressure be higher to suitable value.
- If possible, it is recommended that to install a manual valve both in the pump inlet and the outlet of the controller, so that once pump do not stop normally, can close the valve to exclude other pipeline leakage reason, and find the problem quickly, also, when water pumps, controllers or pipe need to be repaired, can cut off the water supply quickly to save water.

### Warning

- The automatic controller of the water pump cannot be used in the medical treatment or in the system which can cause a serious personal injury or loss of property when problem occur. Within the maximum permitted limits of law, at any time the controller manufacturers and sellers are not liable for any direct or indirect loss caused by the reasons other than the controller.
- The controller itself does not have any part that can be used for repair by users. The maintenance must be done by the people who have relevant technical qualifications.
- Three core round cables must be used to connect the controller, power supply and water pump. To ensure safety, the ground wire must be connected correctly!

Manufacturers and sellers retain all rights to the controller's specifications, including but not limited to copyright, interpretation rights and further amendments, and will not notice when the specifications are modified.