Intelligent non-contact liquid level controller instruction manual

XKC-C383
(AC 110V-220V)

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1st. Overview

XKC-C383 Intelligent non-contact liquid level controller and two non-contact liquid level detection heads realize the function of liquid level high and low control: when the container liquid level is too low, the low liquid level alarm signal sent by the low liquid level sensor is triggered to trigger C383 The controller closes the relay and starts the water pump to add the liquid level. When the liquid level reaches a certain height, the high liquid level sensor sends out a signal to trigger the C383 controller to open the relay and automatically stop the water pump to work in this way. Thereby, the function of automatic control of the container liquid level is realized, and the container liquid level is kept stable.

2nd.Product Features

AC110V-220V wide voltage power supply
Relay active contact output, suitable for various load control.
The control is diversified, and the pump can be controlled in manual or automatic mode.
Screw wall mounting is simple and convenient.

3rd.Technical Parameters

model	**XKC-C383**	**name**	**C383 Intelligent non-contact liquid level controller**
Input voltage	AC 110V-220V (wide voltage)		
The output voltage	AC 110V-220V		
Working current	≤7A		
Operating Voltage	AC 110V-220V		
Power consumption	≤2W		
Load power	When the supply voltage is 110V: the maximum power is 800W When the power supply voltage is 220V: the maximum power is 1600W If you need to control the load exceeding this limit parameter, please install an intermediate relay		
Alarm Output	800W-1600W(Resistive load)		
output method	Relay normally open contact		
Sensor interface voltage	DC12V		
working environment	Temperature -20~105℃, relative humidity ≤80%		
Installation method	Screw wall mounting		
Dimensions	115*90*40		
Safety standard certification	CE		
Environmental certification	ROHS-2.0		

4th. Product selection model

XKC-C383-1P, (with 1 sensor);

XKC-C383-2P, (with 2 sensors);
XKC-C383-3P, (with 3 sensors);
XKC-C383-4P, (with 4 sensors).

5th. Button function description

K1 button: Press K1 to cycle between automatic control or manual control mode.

K2 button: K2 button can only be used in manual mode or alarm state. The function of the external button is parallel to the button on the controller panel, so the function of the external button is the same as that of the panel button。

6th. Indicator status function description

Red light: red light is always on→ automatic control mode

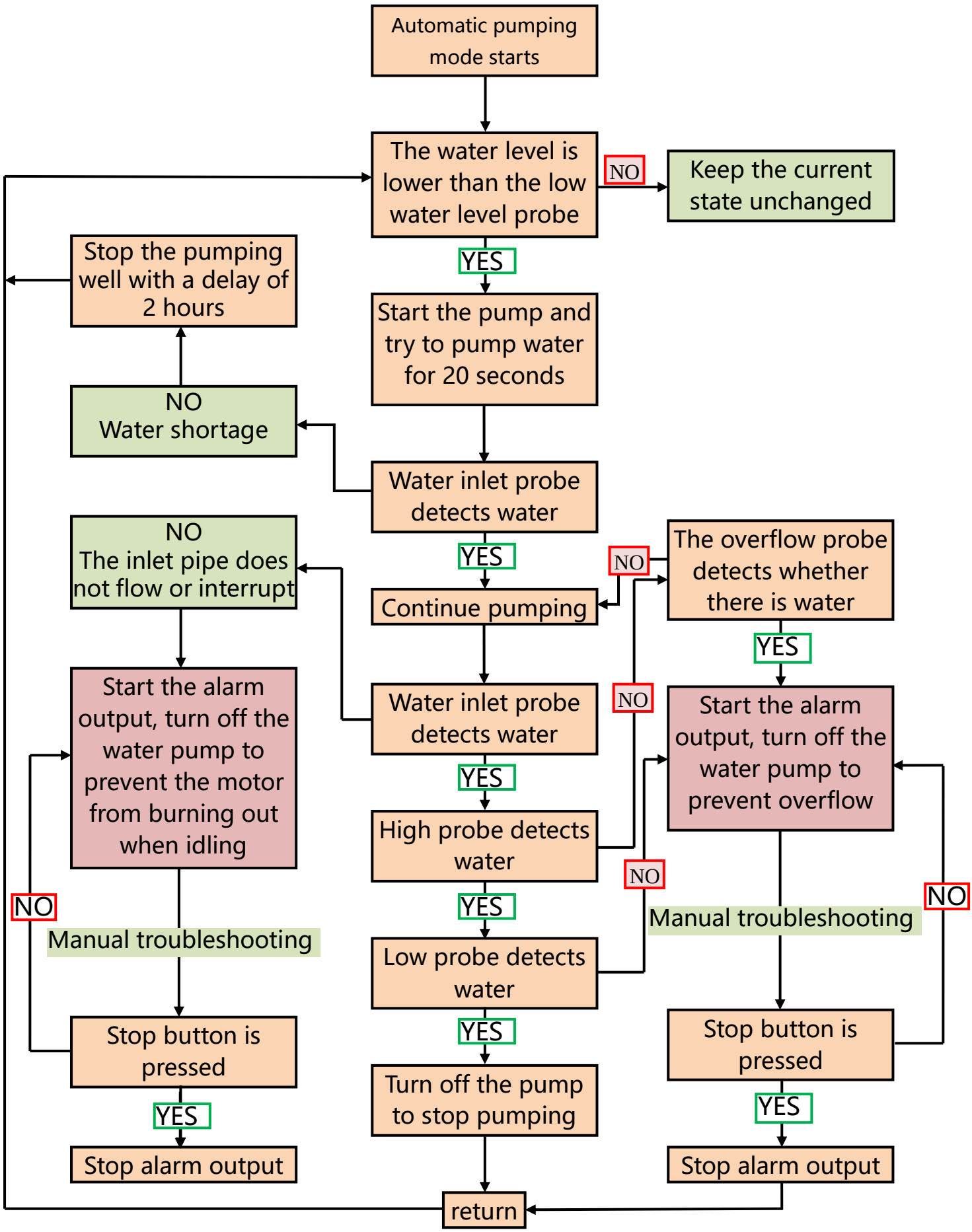
Red light always off → manual control mode

Green light: The green light flashes slowly →The suction pump starts and the drainage pump stops.

The green light flashes quickly → the pump stops and the alarm is activated.

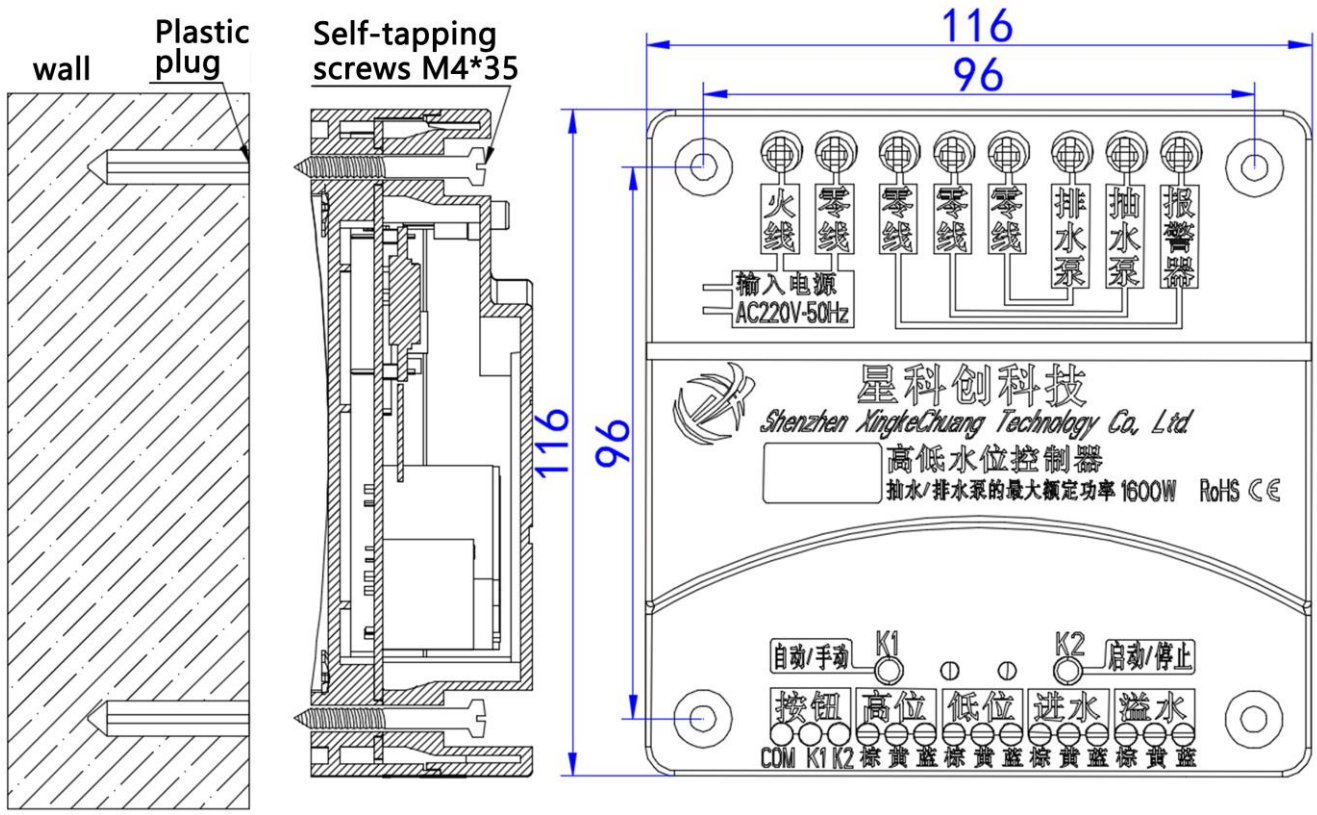
The green light is always on →The water pump stops and the drain pump starts.

7th. Work flow chart of high and low level controller


Automatic pumping mode starts
The water level is lower than the low water level probe
NO
Keep the current state unchanged
YES
Start the pump and try to pump water for 20 seconds
Water inlet probe detects water
NO
Water shortage
Stop the pumping well with a delay of 2 hours
YES
Continue pumping
NO
The overflow probe detects whether there is water
YES
Water inlet probe detects water
NO
Start the alarm output, turn off the water pump to prevent overflow
YES
High probe detects water
NO
YES
Low probe detects water
NO
YES
Turn off the pump to stop pumping
NO
The inlet pipe does not flow or interrupt
Start the alarm output, turn off the water pump to prevent the motor from burning out when idling
NO
Manual troubleshooting
Stop button is pressed
YES
Stop alarm output
Manual troubleshooting
Stop button is pressed
YES
Stop alarm output
NO
return

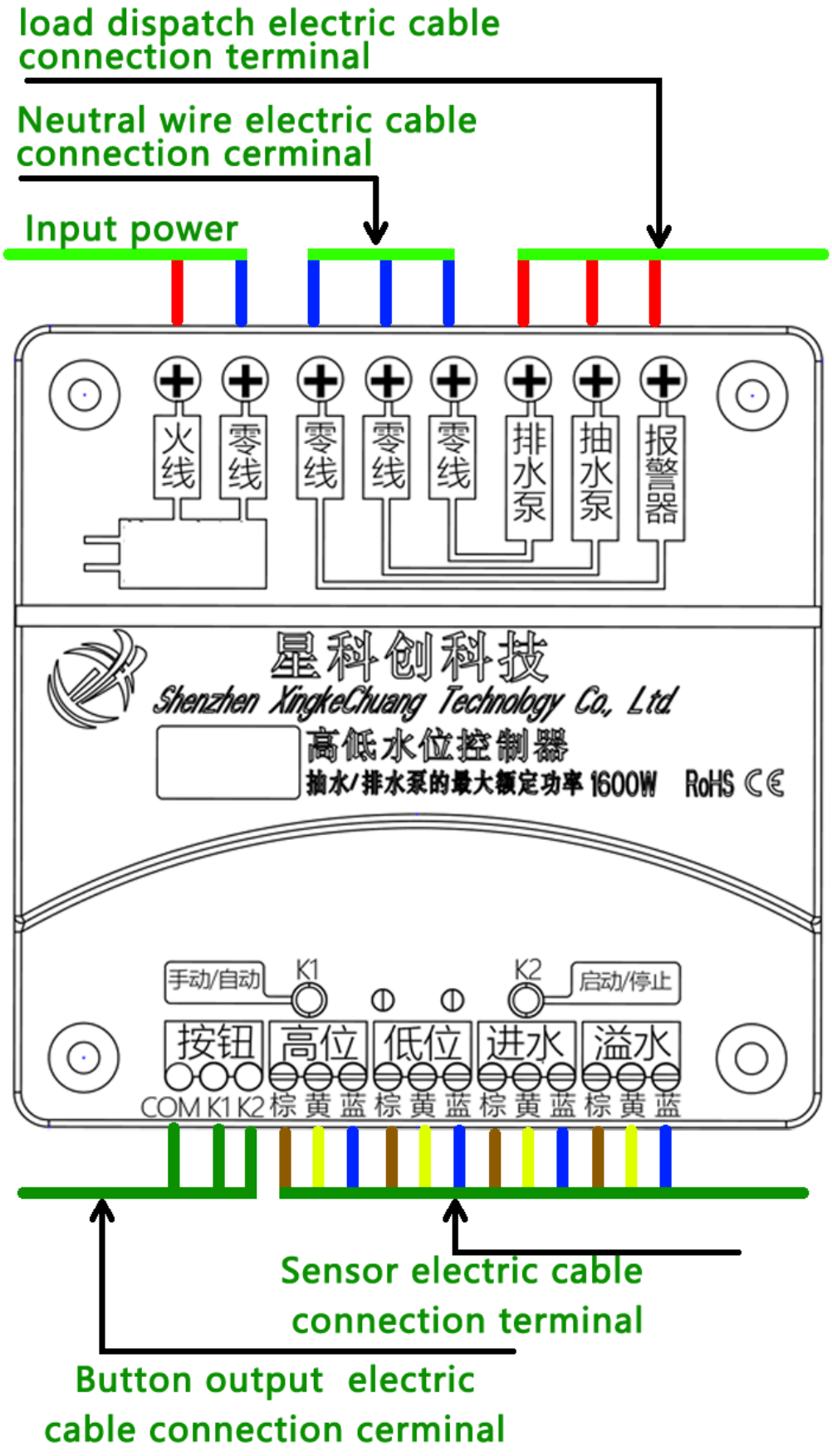
8th. Recommended installation method description

Controller installation method; XKC-C383 Intelligent non-contact liquid level controller can be directly installed on the wall or used in an electric box or electric cabinet, as shown in the figure below, and fix it on the wall with its own screws.
Sensor probe installation: different types of sensor probes have different installation methods, please refer to the relevant chapters of the specifications corresponding to the sensor model you are using. I won't repeat them here.



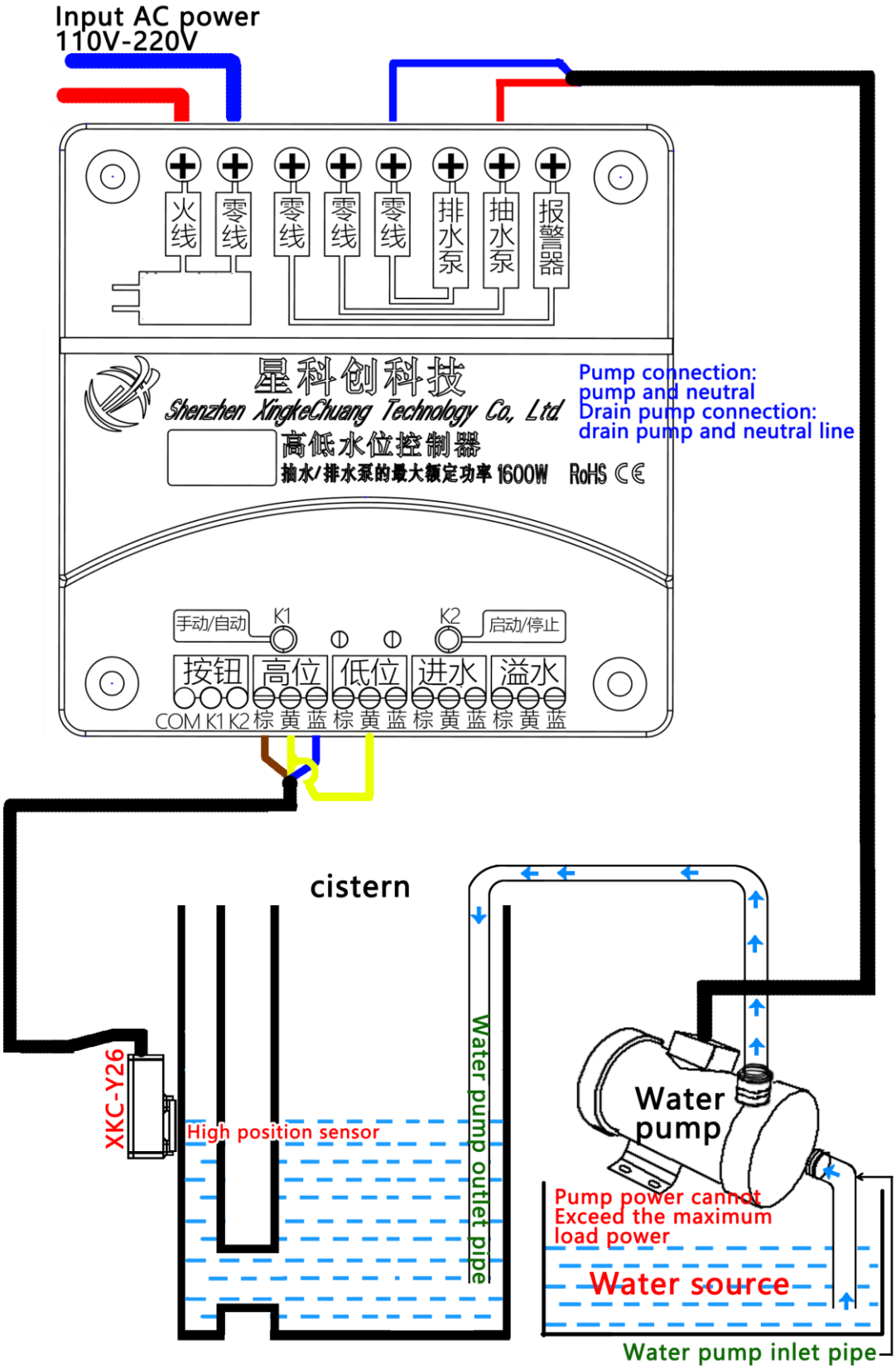
9th. Recommended wiring and application diagram

Terminal description


load dispatch electric cable connection terminal
Neutral wire electric cable connection cerminal
Input power
火线
零线
零线
零线
零线
排水泵
抽水泵
报警器
星科创科技
Shenzhen XingkeChuang Technology Co, Ltd
高低水位控制器
抽水/排水泵的最大额定功率 1600W
RoHS
手动/自动
K1
K2
启动/停止
按钮
高位
低位
进水
溢水
COM K1 K2 棕 黄 蓝 棕 黄 蓝 棕 黄 蓝 棕 黄 蓝
Sensor electric cable connection terminal
Button output electric cable connection cerminal

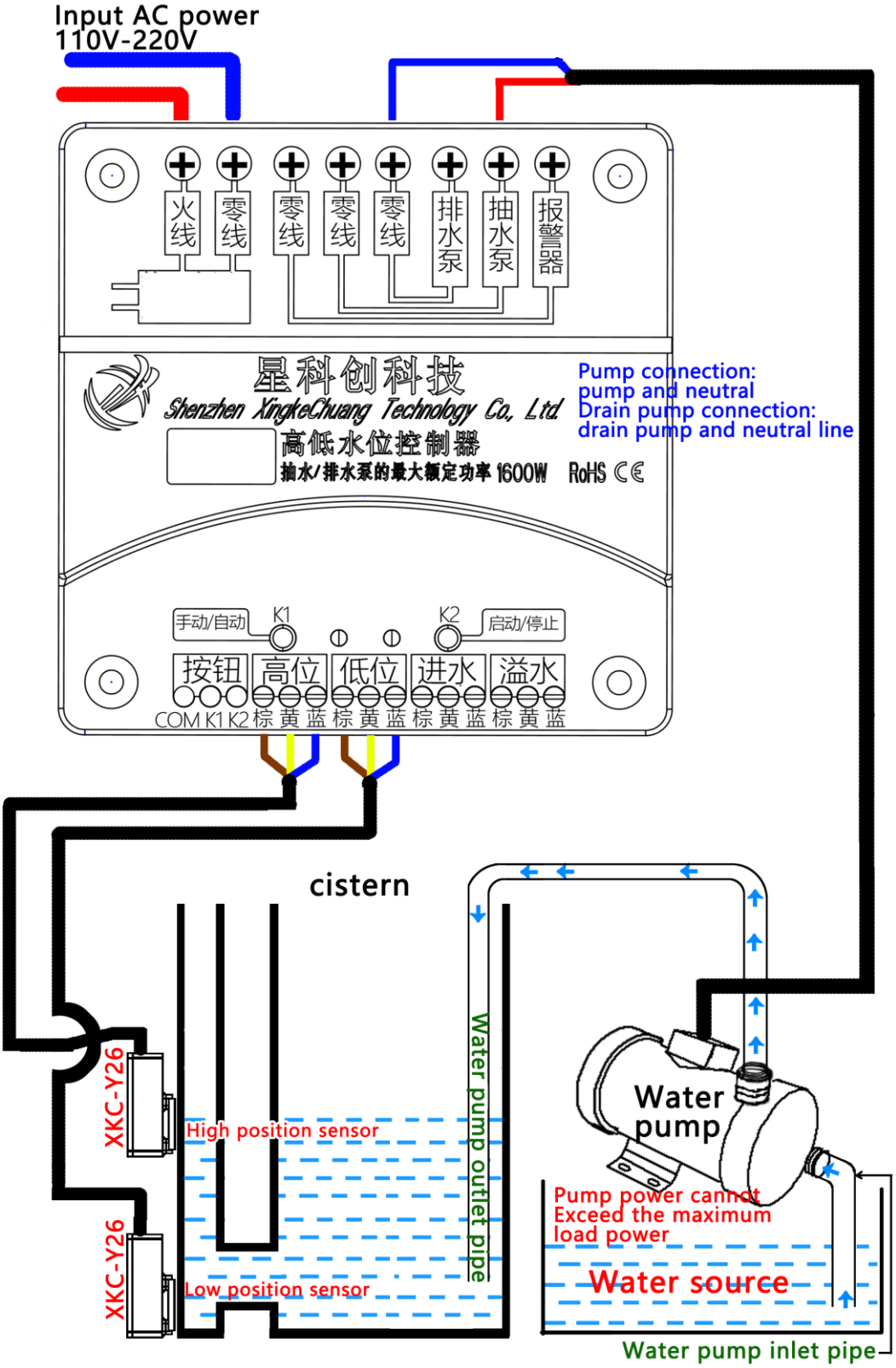
(1) XKC-C383-1P wiring diagram

The following figure uses the Intelligent non-contact liquid level controller C383 + 1 XKC-Y26 non-contact liquid level sensor to realize automatic water level control.



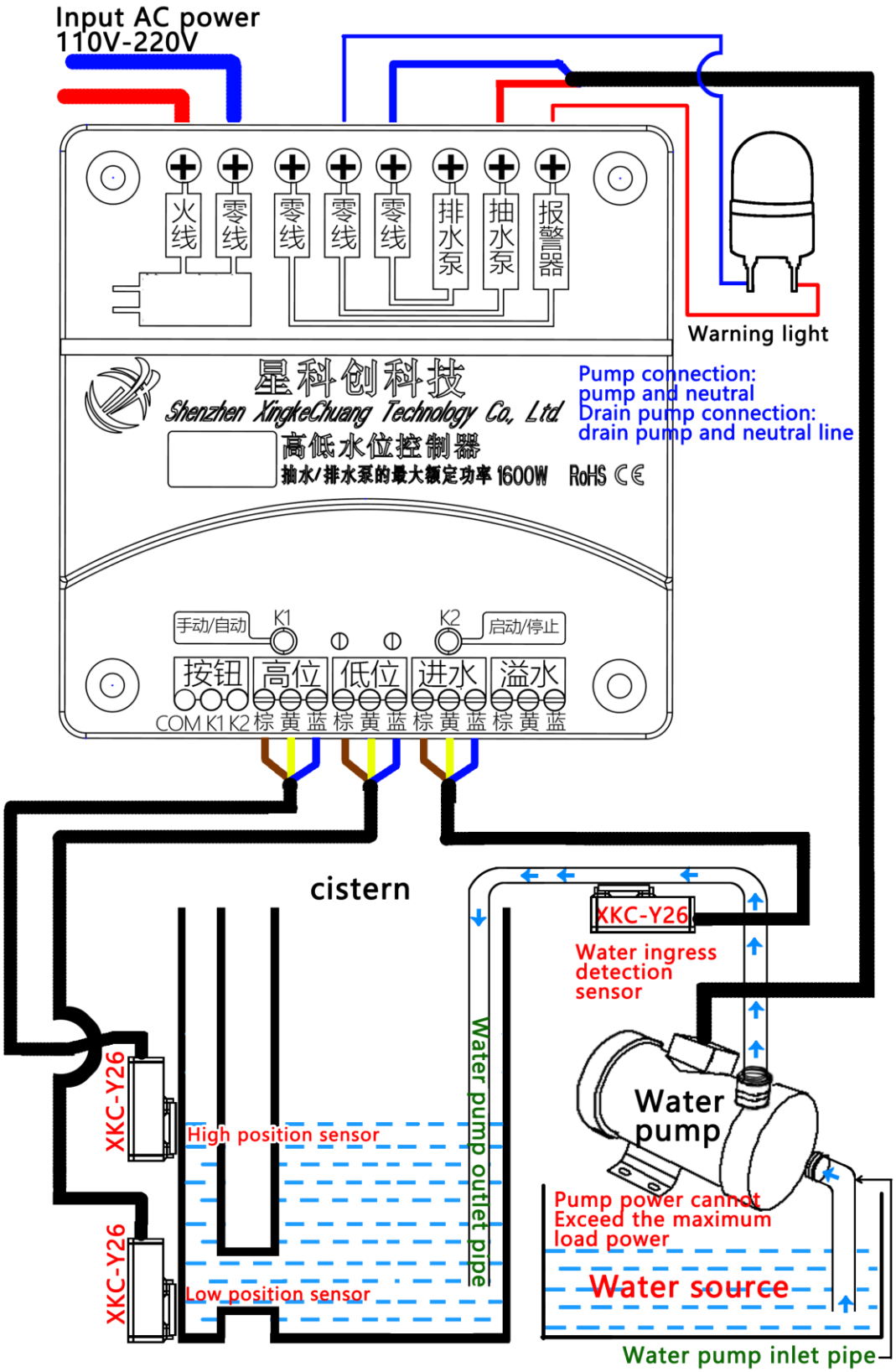
(2) XKC-C383-2P wiring diagram

The figure below uses the Intelligent non-contact liquid level controller C383 + 2 XKC-Y26 non-contact liquid level sensors to achieve automatic water level control。



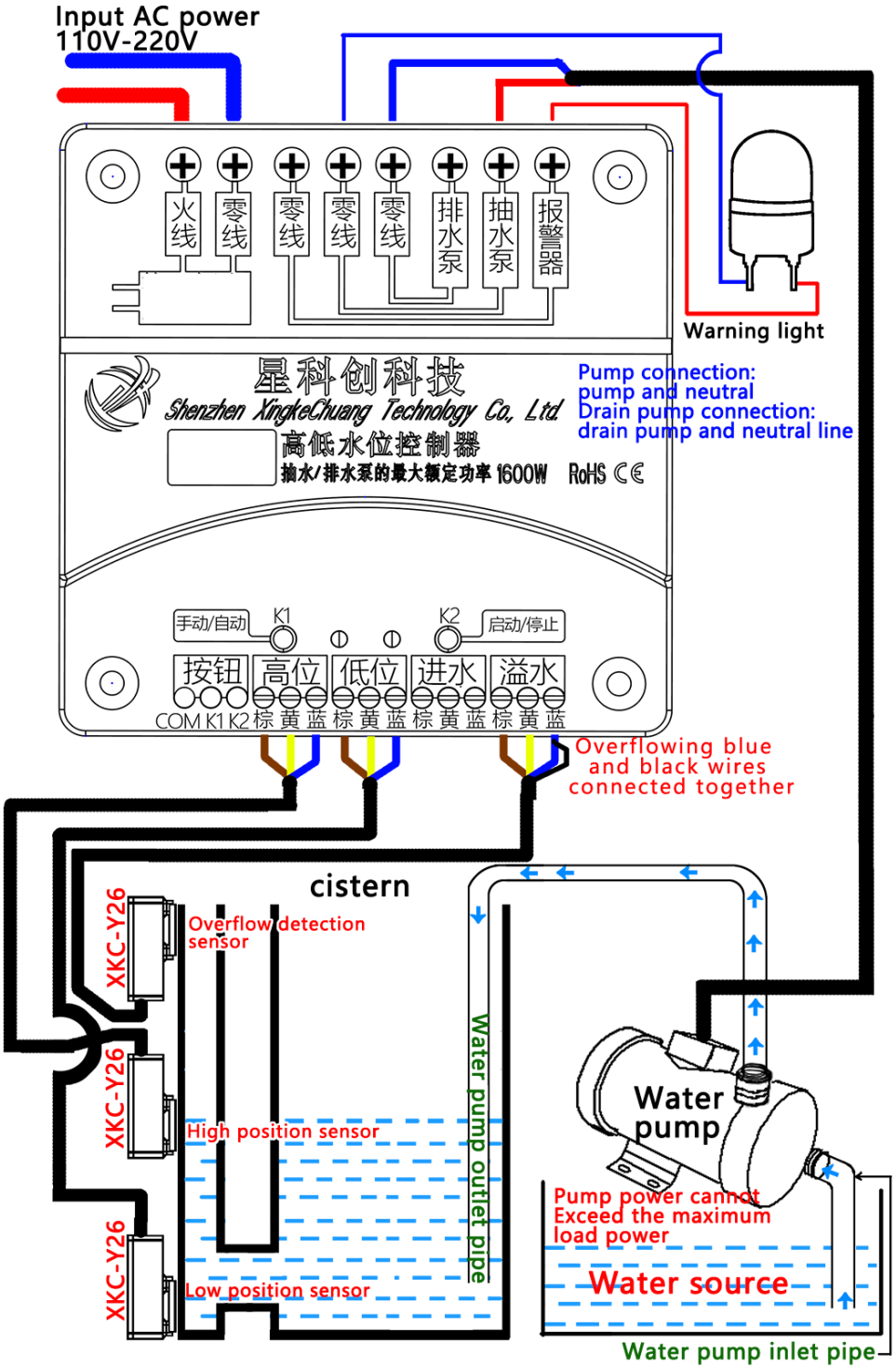
(3) XKC-C383-3P wiring diagram

The following figure uses the Intelligent non-contact liquid level controller XKC-C383 + 3 XKC-Y26 non-contact liquid level sensors to realize automatic water level control, water pump idling protection, fault alarm and other functions。



(4) XKC-C383-3P wiring diagram

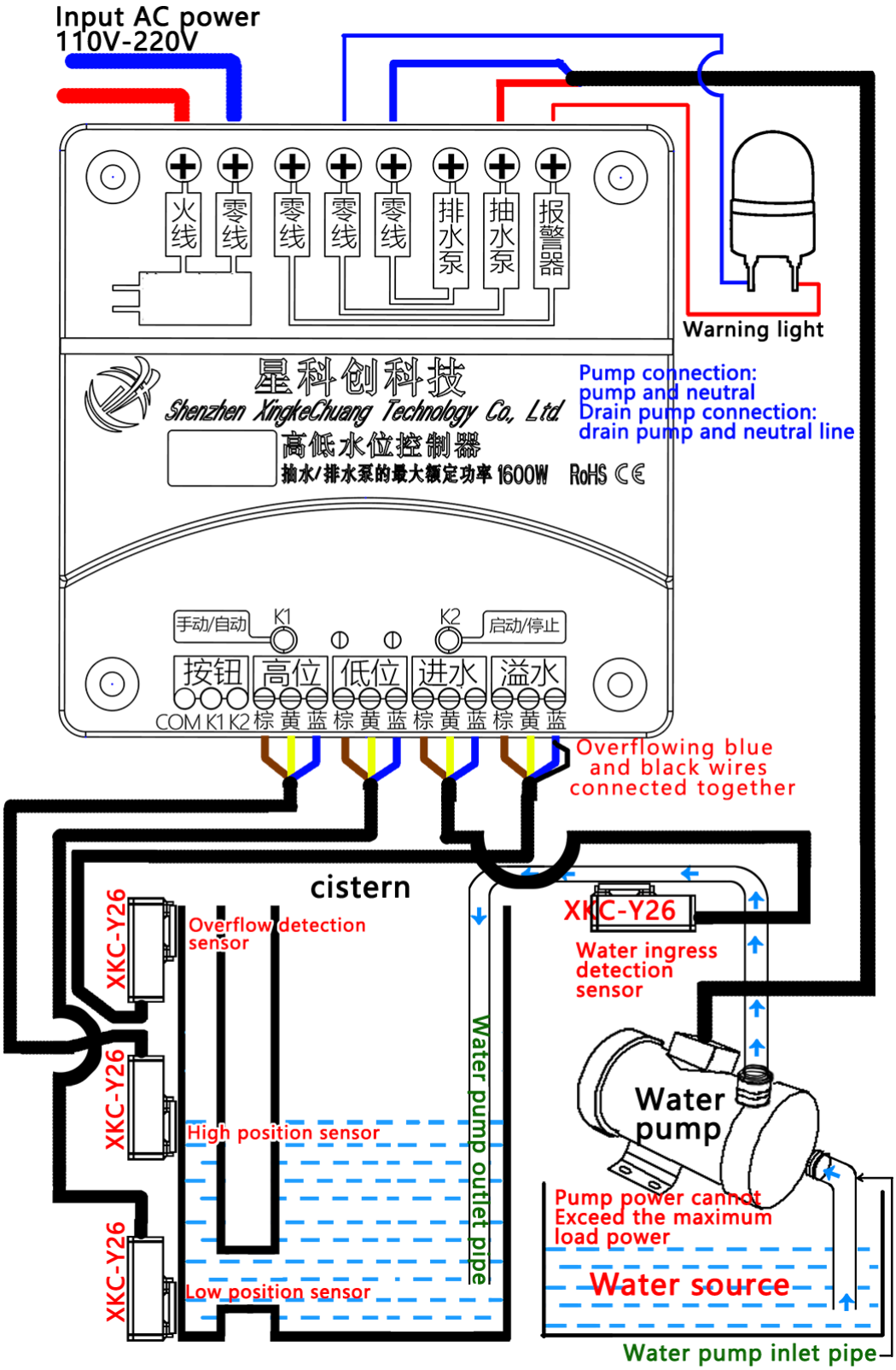
The following figure uses the Intelligent non-contact liquid level controller XKC-C383 + 3 XKC-Y26 non-contact liquid level sensors to realize automatic water level control, overflow detection, fault alarm and other functions。



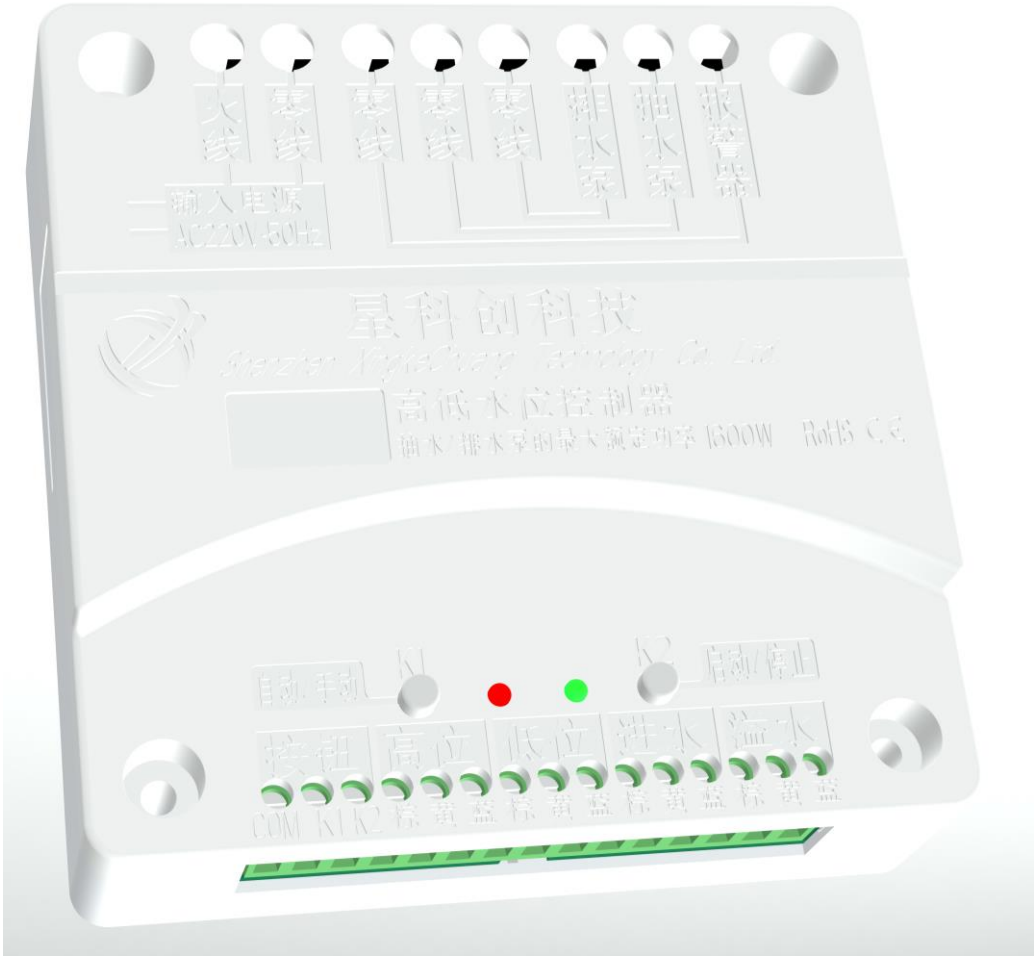
(5) XKC-C383-4P wiring diagram

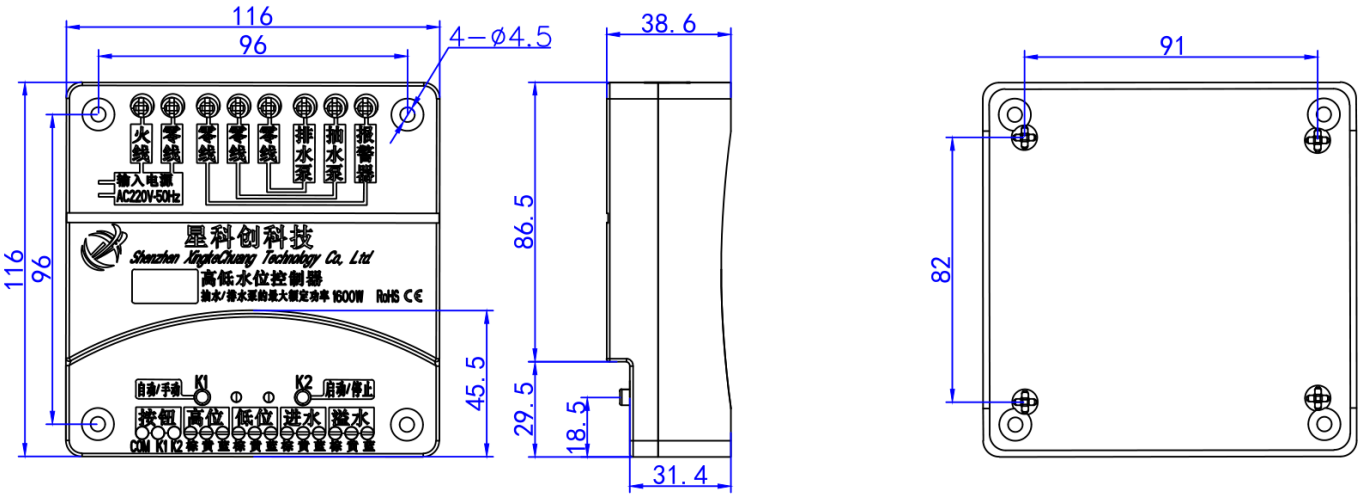
The following figure uses Intelligent non-contact liquid level controller XKC-C383 + 4 XKC-Y26 non-contact liquid

level sensors to realize automatic water level control, overflow detection, water pump idling protection, fault alarm and other functions。



10th.Product size and physical map





11th.Other matters needing attention

When the controller malfunctions and alarms, please check whether the wiring terminals of all sensors are loose, whether the wiring sequence is correct, and check whether the installation positions of the

high-position sensor and the low-position sensor are correct. Whether the sensitivity of each sensor is adjusted to the appropriate position. After troubleshooting, press K2 to stop the alarm.
The pump is not working properly, first check whether the power supply voltage and wiring are normal. Check the contents of the first point above to ensure that it is normal, and then check whether the connection position of the water pump is correct. Check whether the power of the water pump is below 1600W. Check whether the controller is working in the working mode you need (automatic control mode or manual control mode, you can press K1 button to switch).
The controller must be installed in a ventilated, dry, pest-free and dust-less environment.
The control board circuit of the controller is not waterproof, please install it in a dry and ventilated place as much as possible, and take some protective measures against water.

12th.Product warranty terms and instructions

(A) .Warranty service

1. Warranty period maintenance: from the date of purchase, the product host has a one-year free warranty. The company has the right to decide to repair or replace the faulty part. If it is replaced, the replacement part may be a new device or a repair product of the same category, function, and quality. The replaced faulty part belongs to the company; the product Resale and repair do not affect the warranty period. Products that have been repaired or replaced continue to enjoy the original remaining warranty period service. If the warranty period is less than three months after the repair, the repaired or replaced part shall be shipped from the date of delivery Warranty for three months; all products of the company are guaranteed for repair.

2. Loss upon arrival (DOA) replacement: From the day of purchase, you can enjoy a free replacement service within 7 days. Products with the following problems are defined as DOA equipment: the packing and packing list do not match after the first unpacking of the product; some or all of the components cannot be used normally after the first unpacking of the product (surface scratches or other things that do not affect the function of the device) Defects are not included); other hardware failures identified by our company’s engineers remotely or locally.

(B). Applicable limitations of warranty

For the following situations, the company does not assume warranty responsibility:

1. The product is out of warranty; the surface of the product is fragile and damaged; the appearance of the product is seriously damaged, installation/use in abnormal environment, unauthorized disassembly and repair/modification, external power supply damage and other abnormal damage;

2. Damage caused by incorrect installation and use of the product by the user not following the requirements of the manual;

3. Damage caused by natural disasters and human negligence (fire, lightning, flooding, impact, etc.).

(C) .Accessories and consumables are not covered by the warranty.

(D) .Non-free warranty service

Within two years of product purchase, for non-warranty product (including components) failures and damages, you can choose paid maintenance services (free labor costs), and we will charge the transportation cost of repairing parts and accessories according to the actual situation.

(E). Ways to obtain warranty service

It is recommended that you contact the dealer who purchased this product to obtain the warranty service. For the warranty, please present a valid warranty card (the dealer's stamp is required to take effect) or the purchase invoice/receipt: if you can't show it, the product's free warranty period 12 months from the product shipment date, and the latest DOA application deadline is 7 days from the product shipment date.

(F). Statement

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5. Not all models are available in all countries/regions

Please keep this manual properly. Before using the product, please read this manual carefully. When using the product, please be sure to operate in accordance with this manual. The company is not responsible for injuries and accidents caused by operations that do not follow this manual.

(G).Environmental protection This product meets the design requirements for environmental protection.The storage, use and disposal should comply with relevant national laws and regulations.Seek to proceed.

13th. Manual version

Version	Release date
V16	September 28, 2020