

XY-WT01 Digital Thermostat Switch

Features:

Set Temperature --Set T; Backlash Temperature--Back T

1. Heating Mode H:

When Temperature \leq Set T - Back T; Relay conduction, heating equipment begin to work;

when temperature \geq Set T, Relay disconnect, heating equipment stop work;

2. Refrigeration mode C:

When Temperature \geq Set T+Back T; Relay conduction, refrigeration equipment begin to work;

When Temperature \leq Set T; Relay conduction, refrigeration equipment stop work;

3. High-Temperature Alarm ALA:

When Temperature \geq Alarm Temperature, The system opens the sound and light alarm and disconnects the relay, any key stops the sound light;

4. Delay Start OPH:

When a normal heating or refrigeration work is done, the system starts to time T, and only after the $T \geq OPH$, the system can carry out the next round of heating or refrigeration work;

5. Temperature Correction Function OFE(-10.0 ~ 10.0°C):

The system will work for a long time and may have deviations that can be corrected by this function, Temperature = Measured + Calibration;

6. Parameter Remote Read/Set:

The parameters such as setting temperature, backlash temperature, and temperature correction can be set through UART.

7. Real-time Temperature Report:

If the temperature reporting function is turned on, the product is transmitted to the terminal by the UART at 1s intervals, which facilitates data collection;

8. Relay enable (default enable):

If the relay is disabled, the relay remains disconnected;

9. Restore Factory Settings:

At the same time press the STOP, set key more than 3S, restore factory settings;

Working mode setting /backlash temperature :

1. In the running interface, short press SET key, enter the Quick setting interface;
2. After entering the Quick Setup interface, switch the parameters
3. Through the UP DOWN key, modify the parameter value, support short press/long press;
4. Long press SET to build more than 3S or continuous 6S without any key operation, exit quickly set the interface, and save parameters;

Alarm temperature/Delay Start /temperature correction:

1. In the operating interface, long press SET more than 3s, enter the parameters to set the interface;
2. Enter the parameter to set the interface, through the short press SET key to switch to set the parameters;
3. Through the UP DOWN key, modify the parameter value, support short press/long press;
4. Long press SET3s above or continuous 6S without any key operation, exit parameter set interface, and save parameters;

How to turn on high-temperature alarm (default off):

Enter the parameter setting interface, switch to the alarm parameter ALA, turn on or off the high-temperature alarm function by short pressing the STOP button, and if the high-temperature alarm function closes, ALA displays '\---\' as a reminder;

How to turn on delay start (default Off):

Enter parameter setting interface, switch to alarm parameter OPH, turn on or off high-temperature alarm function by short Press STOP button if high-temperature alarm function closes, OPH show '\---\' to remind;

Serial Control (MCU UART)

Communication standards: 9600bps, Data bits: 8

Stop Bits: 1

CRC: none

Flow control: none

CMD	Description
Start	start data upload
Stop	stop data upload
Read	Read the param setting
T: ON	Temperature relay enable
T: OFF	Temperature relay disable
H: ON	Humidity relay enable
H: OFF	Humidity relay disable
TS: XX.X	Set start Temperature (-20.0~60.0)
TP: XX.X	Set stop Temperature (-20.0~60.0)
HS: XX.X	Set start Humidity (00.0~100.0)
HP: XX.X	Set stop Humidity (00.0~100.0)
TC: XX.X	Set Temperature Calibration (-10.0~10.0)
HC: XX.X	Set Humidity Calibration (-10.0~10.0)

220V wiring mode





When the OPA is delayed, the interface will display 'h'.

Product Name: digital temperature controller

Product model : XY-WT01 Probe specification: 4*20mm stainless steel

Power supply : DC6.0~30V

Temp range : -50°C~110°C

Control accuracy : 0.1°C

Measurement input : NTC10K/B3950

Refresh frequency : 0.5second

Output type: relay output 10A

Type of probe: L:0.5 meter of waterproof probe



DC6.0~30V wiring mode



Temperature range -50~110 °C

Temperature control accuracy 0.1°C



Heating and cooling

LCD

Accurate temperature control



