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Thermostates Digital Thermostat Switch Instructions

XY-WT01 Digital Thermostat Switch

Contents [**hide**

Features:

Set Temperature –Set T; Backlash Temperature–Back T

1. **Heating Mode H:**
   When Temperature ≤ Set T Back T; Relay conduction, heating equipment begin to work; when temperature ≥ Set T, Relay disconnect, heating equipment stop work;

2. **Refrigeration mode C:**
   When Temperature ≥ Set T+Back T; Relay conduction, refrigeration equipment begin to work; When Temperature ≤ Set T; Relay conduction, refrigeration equipment stop work;

3. **High-Temperature Alarm ALA**
   When Temperature ≥ 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 ≥ OPH, the system can carry out the next round of heating or refrigeration work;

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

   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 0ff):

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: 9600bpsData 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 (00.0100.0)
HP: XX.X	Set stop Humidity (00.0100.0)
TC: XX.X	Set Temperature Calibration (-10.0-10.0)
HC: XX.X	Set Humidity Calibration (-10.0-10.0)

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

Product Name: digital temperature controller
Product model : XY-WT0O1
Power supply: DC6.0~30V
Temp range: -50°C~110°C ; «4 EEL xe) , ,
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

Probe specification: 4*20mm stainless steel

DC6.0~30V wiring mode

OUT **30.2**℃
H35.5
ELECTRONICS THERMOSTAT XY-WT01

- +
DC 6.0V~30V

Load

Temperature range-20-110 ºC

Temperature control accuracy 0.1℃

OUT **30.2**℃
H35.5
ELECTRONICS THERMOSTAT XY-WT01

Heating and cooling   LCD

Accurate temperature control

Relay closing indication

Add button   Detection temp   Setting temp   Setting key

OUT   30.2℃
H35.5

ELECTRONICS THERMOSTAT XY-WT01

Reduce button   Emergency stop button

Current mode heating H/ cooling C

+   −   Relay output

Power supply DC 6.0~30V

Documents / Resources

XY-WT01 Digital Thermostat Switch	**Thermostates Digital Thermostat Switch** [pdf] Instructions XY-WT01, Digital Thermostat Switch