Sinilink ST10/ST30 SA10/SA30 remote thermostat module temperature controller module refrigeration heating high and low temperature alarm





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1. Product introduction







The product can save up to 15 days of data, upload rate up to 1 / second, can be exported at any time.

Mobile APP control interface

In automatic mode, with the emergency stop function, the work can be allowed in the specified time period; Manual mode, the product seconds to become intelligent time control switch, support timing delay cycle;



XY-ST/SA Comparison of product specifications

	XY-ST10/ST10-W	XY-ST30/ST30-W	XY-SA10/SA10-W	XY-SA30/SA30-W
Model Parameter				
Type of relay	10A relay	30A relay	10A relay	30A relay
Maximum control	current≤10A	current≤30A	current≤10A	current≤30A
Input power supply	DC 6-30V	DC 6-30V	AC 110-220V	AC 110-220V
Output type	1 relay switch output	1 relay switch output	Live output (AC 110-220V)	Live output (AC 110-220V)



XY-ST10 Temperature controller product specifications

product name	WIFI remote smart thermostat	Product Mode	XY-ST10/ST10-W
Input power supply	DC 6-30V	Output type	1 relay switch
Type of probe	10K NTC 3950B	Length of probe	2 m waterproof probe
Size of appearance	79*43*25(MM)	weight	72g
Maximum control	Current within 10A	Additional Features	Buzzer cue + backlight control
Temperature control range	-40~110°C Temperature control precision	0.1°C Temp	perature ring range -40~110°C

2. Interface description



2.1 run interface

Temperature sensor anomaly



1. After power on, the "running interface" will be displayed, short press the " $\mathbf{\nabla}$ " key to turn on/off the backlight;

2. Short press the "" key to turn on/off the emergency stop, when the emergency stop is turned on, ON will flash to remind, and the product will stop working at this time;

3. Long press the "W" key to turn on/off the key lock;

4. Press the "▲" key and the "▼" key at the same time for more than 5 seconds, the WiFi will enter the pairing state (only WiFi version);

2.2 Start-stop temp setting interface



1. In the running interface, short press the " 🌣 " key to enter the start-stop temperature setting interface;

2. Short press the "" key to switch the start temperature/stop temperature, and use the " \blacktriangle " key and " ∇ " key to modify the parameter value;

3. Press and hold the "** key for more than 2 seconds to save the parameters and exit the start-stop temperature setting interface;

2.3 System param setting interface



1. In the running interface, long press the """ key for more than 2 seconds to enter the system parameter setting interface.

2. On the system parameter setting interface, press "♣", "▲", "▼" and "♠" keys to set "high temperature protection OTP, low temperature protection LTY, delayed start dLY, temperature correction OFE, buzzer switch BEP, temperature unit F-C, device address Add, baud rate bAE" and other functions

3. Press and hold the "*" key for more than 2 seconds to save the parameters and exit the system parameter setting interface.

3. Key Description

Interface Key	Run Interface	Start-Stop Temp Set	System Param Set
\$	Short press: enter the start- stop temp setting interface Long press: enter the system parameter setting interface	Short press: switch to modify the start and stop temperature Long press: Exit settings and save parameters	Short press: switch to modify system parameters Long press: Exit settings and save parameters
	None	Increase start/stop temperature value, support short press + long press	Increase system parameter value, support short press + long press
▼	Short press: turn on/off the backlight	Decrease start/stop temperature value, support short press + long press	Reduce the system parameter value, support short press + long press
0	Short press: turn on/off emergency stop Long press: Turn on/off the key lock	None	Short press: Turn on/off the OTP/LTP/dLY protection function, when the function is turned off, it will display ""
▲ + ▼	Long press for 5 seconds: enter WiFi pairing mode (WTAC-W only)	None	None

4.ST/SA Wiring diagram



Ac 220V power supply wiring diagram



Simple one in one out connection, suitable for all AC power supply equipment

5.Product Features

5.1 Heating and cooling mode

When the start temperature < stop temperature, the working mode is heating mode $\overset{}{*}$; when the detection temperature \leq start temperature, the relay pulls in and starts heating; when the detection temperature \geq stop temperature, the relay is disconnected and heating stops.

When the starting temperature is greater than the stopping temperature, the working mode is

command mode $\$; when the detected temperature is \ge the starting temperature, the relay is closed and the cooling starts; when the detected temperature is less than or equal to the stopping temperature, the relay is disconnected and the heating is stopped.

In the running interface, short press the " \clubsuit " key to enter the start-stop temperature setting interface. After entering the start-stop temperature setting interface, short press the " \clubsuit " key to switch the start temperature/stop temperature, and use the " \blacktriangle " and " \blacktriangledown " keys to modify the start temperature/stop temperature. Temperature value; long press the " \clubsuit " key for more than 2 seconds to save the parameters and exit the start-stop temperature setting interface.

In the running interface, short press the "W" " key to turn on/off the emergency stop; when the emergency stop is turned on, the relay remains disconnected, and the "ON" icon flashes as a reminder.

5.2 Emergency stop function

In the running interface, short press the "W" " key to turn on/off the emergency stop; when the emergency stop is turned on, the relay remains disconnected, and the "ON" icon flashes as a reminder.

5.3 High temperature alarm (OTP)

When the high temperature alarm function is turned on and the detected temperature \geq high temperature alarm value, the product is in a high temperature alarm state;

In the running interface, long press the " \clubsuit " key for more than 2 seconds to enter the system parameter setting interface, short press the " \clubsuit " key to select the parameter item "High temperature alarm OTP", press the " \blacktriangle " and " \checkmark " keys to modify the high and low temperature

alarm value, short press The "W" " key turns on/off the high temperature alarm; when the function is turned off, it displays "---

5.4 Low temperature alarm (LTP)

When the low temperature alarm function is turned on and the detection temperature \leq low temperature alarm value, the product is in a low temperature alarm state.

For parameter setting of low temperature alarm, please refer to chapter 4.3

5.5 Delay start (dLY)

If the delay start (unit: second) is enabled, after a heating or cooling is completed, if the heating

or cooling conditions are met again within the delay period, the product will not execute, and the product will not execute until the delay is completed; parameter setting refer to 4.3 chapter.

5.6 temperature calibration (OFE)

The product supports temperature self-correction. Actual temperature = detected temperature + temperature correction; please refer to chapter 4.3 for parameter settings.

5.7 Buzzer switch (BEP)

The button prompt tone + sound alarm switch can be modified, please refer to chapter 4.3 for parameter settings.

5.8 temperature unit (F-C)

The product supports the switching of temperature units $^{\circ}C/^{\circ}F$, please refer to chapter 4.3 for parameter settings.

5.9 Modbus slave address(Add)

Modbus slave address ranges from 1 to 247, please refer to chapter 4.3 for parameter setting

5.0 Modbus baud rate(bAE)

Modbus Baud rate range:

0: 9600 1: 14400 2: 19200 3: 38400 4: 56000 5: 57600 6: 115200 please refer to chapter 4.3 for parameter setting

6. APP interface function description



6.1Remote parameter settings

First of all, we should ensure that the "port rate and equipment address" of the app communication column are consistent with the product. After successful communication, the product operation parameters can be set through the app, such as working mode, working temperature, temperature unit, etc., which is convenient and fast;

6.2 Support the timing | delay | cycle function

Timing, delay and cycle can be added through app, and this function controls the state of the emergency stop switch of the product to meet the needs of the timing scene;

6.3 Whether the product can be run offline offline

When the parameters are set, the product can run offline, parameter power is not lost; timing, delay, circulation and other functions need time information, the network cannot be run;

6.4 LAN data export function

A temperature data will be transmitted from the LAN for 1 second. After clicking "Export", it will be automatically exported to the EXCEL to analyze the temperature data

6.5 Share Settings

You can share with others, realize multiple people to share a device, can control its functions.

6.6 temperature reservation

The product supports 6 temperature reservations, and supports the setting of three parameters: working mode, start temperature, and stop temperature; and can repeat the mode and execution time



Submit

6.7 operation note

All operation records can be stored in the background, and the + timer + button +APP+ heating refrigeration mode to query the operation status of the relay;

2:	57	''II 🕹 💽
<	Control device	
Start	2021-08-10 14:50	
End	2021-08-18 14:57	
	Query	
30		
25		
20		
15		
10		
5		
0 🖵		

021/8/18 14:44:32 2021/8/18 14:14:32 2021/8/18 13:44:32 2021/8/18 13:14: Note: cloud records can be kept for up to 15 days

Serial	Time	Temp(°C)
1	2021-08-18 14:44:32	28.1
2	2021-08-18 14:39:32	28.0
3	2021-08-18 14:34:32	28.0
4	2021-08-18 14:29:32	27.9
5	2021-08-18 14:24:32	27.9
6	2021-08-18 14:19:32	27.9
7	2021-08-18 14:14:32	27.9
8	2021-08-18 14:09:32	27.9
9	2021-08-18 14:04:32	27.9
10	2021-08-18 13:59:32	27.9
11	2021-08-18 13:54:32	27.9
12	2021-08-18 13:49:32	27.8
13	2021-08-18 13:44:32	27.9
14	2021-08-18 13:39:32	27.8
15	2021-08-18 13:34:32	27.7
16	2021-08-18 13:29:31	27.9
17	2021-08-18 13:24:31	27.8
18	2021-08-18 12.10.21	27 Q

6.8 Cloud recording and upload frequency

Temperature data can be stored in the background, the log upload frequency of can be set, can set 1 second / bar (one default 5 minutes); data can be inquired for any time period at will to retain data within 15 days; cloud data export function can be added to make the next analysis of the temperature data;

2: <	57	Control device	ıı ≎ ∎
Start	2021-08	-10 14:50	
End	2021-08	-18 14:57	
		Query	
30 25 20 15 10 5 0 021/8/18 1 Note: 0	4:44:32 200 Sloud records	21@/1814-14-32 2021@/1813-44-32 can be kept for up to 15 days	2021/8/18 13:14:
			Temp(°C)
	I	2021-08-18 14:44:32	28.1
2	2	2021-08-18 14:39:32	28.0
3	3	2021-08-18 14:34:32	28.0
4	1	2021-08-18 14:29:32	27.9
ŧ	5	2021-08-18 14:24:32	27.9
6	6	2021-08-18 14:19:32	27.9
7	7	2021-08-18 14:14:32	27.9
8	3	2021-08-18 14:09:32	27.9
ę	9	2021-08-18 14:04:32	27.9
1	0	2021-08-18 13:59:32	27.9
1	1	2021-08-18 13:54:32	27.9
1	2	2021-08-18 13:49:32	27.8
1	3	2021-08-18 13:44:32	27.9
1	4	2021-08-18 13:39:32	27.8
1	5	2021-08-18 13:34:32	27.7
1	6	2021-08-18 13:29:31	27.9
1	7	2021-08-18 13:24:31	27.8
1	R	2021-08-18 13-10-31	27 9

2:58 <	Control device	'¶ ≎ ∎
Start 2021-	07-01 14:50	
End 2021-0	08-18 14:57	
	Query	
Note: cloud recor	ds can be kept for up to 15 days	5
Serial	Time	Execute
INCHING	2021-08-18 14:55:51	Relay OFF
APP	2021-08-18 14:55:46	Relay ON
APP	2021-08-17 09:31:36	Relay OFF
APP	2021-08-17 09:31:33	Relay ON
RESTART	2021-08-16 08:04:22	Relay OFF
RESTART	2021-08-09 08:05:55	Relay OFF
APP	2021-08-07 09:43:50	Relay OFF
APP	2021-08-07 09:43:49	Relay ON
	Click load more	

7.Mail notification function:

7.1 How to bind a mailbox

1) Turn on the mail notification



1. Open the APP into the device operation interface, the top left corner is the switch of the mail notification function; if the email notification is turned on, when the computer status sends the change will send the latest status and operation type of the computer in real time through the mailbox used to register the APP;

Operation types are divided into five types: 1. Equipment power 2. Key operation 3. Timer operation 4.APP operation 5. Point operation operation; as shown in the figure below



Sinilink Notice: Your Device [Sinilink] now status is power on,oprete type:



Sinilink Notice: Your Device [Sinilink] now status is power off,oprete type:

8. How to distribution network

8.1 Touch pair

1. On the running interface, press the " \blacktriangle " key and the " \blacktriangledown " key simultaneously for more than 5 seconds, and wait for the icon $\widehat{\frown}$ to flash 4 times every 1 second, indicating that the product has entered the Touch pairing state.

2. The operation of the APP is as shown in the figure:



Remember WIFI and password	reconfigure the router,
	separate it, and select
	2.4G network.)
Next step	
1 444 Mar 10 1	
Fourth step	
رکا چاہی	
Connected Device	
$\cap \cap \cap$	
\smile	
Enter WIFI Input device Connection password information completed	mi 1 m 1
Enter WIFI Input device Connection password information completed Explain	The product enters Touch
Enter WIFI Input device Connection password information completed Explain ress the matching button for a long time until the indicator flashes four times and then interrupts for one second (as shown below), when the device enters Touch matching mode.	The product enters Touch by default after power-on
Enter WIFI Input device Connection password information completed Explain ress the matching button for a long time until the indicator flashes four times and then interrupts for one second (as shown below), when the device enters Touch matching mode.	The product enters Touch by default after power-on Pairing mode.
Enter WIFI Input device Connection password information completed Explain Explain when the device enters Touch matching mode.	The product enters Touch by default after power-on Pairing mode.
Enter WIFI Input device Connection completed information completed Explain ress the matching button for a long time until the indicator flashes four times and then interrupts for one second (as shown below), when the device enters Touch matching mode.	The product enters Touch by default after power-on Pairing mode.
Enter WIFI Input device Connection password information completed Explain Tess the matching button for a long time until the indicator flashes four times and then interrupts for one second (as shown below), when the device enters Touch matching mode. Cot item Custom device name Input device name	The product enters Touch by default after power-on Pairing mode. Customize device name and
Enter WIFI Input device Connection completed Explain Explain Connection the indicator flashes four times and then interrupts for one second (as shown below), when the device enters Touch matching mode.	The product enters Touch by default after power-on Pairing mode. Customize device name and classification.
Enter WIFI Input device Connection password information completed Explain Tess the matching button for a long time until the indicator flashes four times and then interrupts for one second (as shown below), when the device enters Touch matching mode. Cot item Custom device name Input device name Please choose device classification Classe choose device classification	The product enters Touch by default after power-on Pairing mode. Customize device name and classification.
Enter WIFI Input device Connection completed Explain Completed Explain ress the matching button for a long time until the indicator flashes four times and then interrupts for one second (as shown below), when the device enters Touch matching mode. Cost item Custom device name Input device name Please choose device classification Please choose device classification	The product enters Touch by default after power-on Pairing mode. Customize device name and classification.
Enter WIFI Input device Connection completed Explain Explain ress the matching button for a long time until the indicator flashes four times and then interrupts for one second (as shown below), when the device enters Touch matching mode. Cost item Custom device name Input device name Please choose device classification Please choose device classification	The product enters Touch by default after power-on Pairing mode. Customize device name and classification.
Enter WIFI Input device Connection completed Explain Connection solution for a long time until the indicator flashes four times and then interrupts for one second (as shown below), when the device enters Touch matching mode.	The product enters Touch by default after power-on Pairing mode. Customize device name and classification.
Enter WIFI Input device Connection Completed Explain ress the matching button for a long time until the indicator flashes four times and then interrupts for one second (as shown below), when the device enters Touch matching mode. Cost item Custom device name Input device name Please choose device classification Please choose device classification	The product enters Touch by default after power-on Pairing mode. Customize device name and classification.
Enter WIFI Input device Connection completed Explain Connection terms and then interrupts for one second (as shown below), when the device enters Touch matching mode.	The product enters Touch by default after power-on Pairing mode. Customize device name and classification.
Enter WIFI Input device Connection Completed Explain Completed Explain ress the matching button for a long time until the indicator flashes four times and then interrupts for one second (as shown below), when the device enters Touch matching mode. Cot item Custom device name Input device name Please choose device classification Please choose device classification	The product enters Touch by default after power-on Pairing mode. Customize device name and classification.
Enter WIFI Input device Connection completed Explain Completed Explain ress the matching button for a long time until the indicator flashes four times and then interrupts for one second (as shown below), when the device enters Touch matching mode. Cost item Custom device name Input device name Please choose device classification Please choose device classification	The product enters Touch by default after power-on Pairing mode. Customize device name and classification.
Enter WIFI Input device Connection Completed Completed Explain ress the matching button for a long time until the indicator flashes four times and then interrupts for one second (as shown below), when the device enters Touch matching mode. Cot item Custom device name Input device name Please choose device classification Please choose device classification Start the connection	The product enters Touch by default after power-on Pairing mode. Customize device name and classification. Click "Start Connection".

8.2 AP pair

1. In the running interface, simultaneously press the " \blacktriangle " key and the " \checkmark " key for more than 5 seconds, and the icon $\widehat{}$ continues to flash rapidly to indicate that the product has entered the AP pairing state.

2. The operation of the APP is as shown in the figure:

First st	tep	Second step
-		
下午4:10 論	i ⇔ 5il 5il 6i 6i 50)	下午4:10 銀 完 加 加 岛 50
Please enter the device name PC	<u>م</u>	Connection guidance Please check the product manual select the corresponding
No equipment was added under t	the classification	networking configuration mode , and adjust the equipment to the networking configuration status Make sure that local network permissions are enabled, otherwise
		devices will not be soded .
		Touch
		equipment
		Compatibility mode (AP Bluetooth devices
		Suitable rWFi Suitable For Bluetooth module
		A. A.
		Please select "AP" mode
Click on the small	plus sign	
	A. C.	
	6	
My Devices	Personal Center	
Third st	tep	Fourth step
<u>ፑ</u> ቱ 5:11	ा कि जैवी जैवी कि 42 🔵	下午4:11 踏 ବ. ଲା ଲା ରା 50
← Device networking	configur	← Connected Device
Please put the equipment in	nto the distribution	
Configure which WiFi network you need to	connect your device to	Enter WIFI Input device Connection
1		Set item
		Sinlink
Wireless router	я	Please choose device classification
✓ 2.4GHz X S	SGHz	PC 🗸
WIFE TP-LINK_2.4G_xinyi		
PASSWORD: xinyi521000		Customize the device name and
Remember WIFI and password		<u>category, click</u> "start connection"
During the pairing process network must be 2.4G Yes,	s, the WIFI the 5G network	
cannot be paired. (If your 2.4G and 5G are network me	rWIFI router ergers Please	
reconfigure the router, se and select Take 2.4G netwo	eparate it, ork	
Next step		Start the connection
Fifth st	tep	Sixth step
		4:15 PM 실행 중 3nl 5nl 유리 48 ()
		← Add Device
		 Press the matching button for a long time until the indicator flashes continuously (as shown below), when th device enters compatible matching mode.
WLAN		 Enter the mobile setup interface and connect the network to the Sinilink Product network (password 12345678)
Saved SinilinkProduct	~	
Connected		
Available network		WINK UNIT
रू Asfly		C 24
a AsHobby		
CAR-DVR-e912		• anum •
		Alemanus Parkardon Calenaeren
Setting		TPURALISTA Disko sam alem TPURALISTA
	ing interface	TPLINC/DIS TRUNC/DIS
Enter the phone setti and connect the WIFI	network to	Technikolar
Enter the phone setti and connect the WIFI SinilinkProduct (pass 12345678)	network to_ sword is_	Go book to Sintlink ADDd -lick "M

Seventh step

4.14 PM	## 중 해 해 Ri 48)
	mobile setup interface and connect the the Smillink Product network (password)
	¥
	Tips
The do the m then c the de	levice has been found, please make sure that oblie phone is connected to the Internet, and click the "Complete Add" button to complete evice addition.
	Complete Add
	() and a second s

Click "Finish adding" and waitfor the mobile phone to connect successfully, and then automatically return to the app device interface 9. How to download a mobile APP



Scan Download APP