成型尺寸：78x135mm
印刷颜色：4色
成型方式：骑马钉

78mm

135mm

Temperature Controller

Model: ECF-SOP20

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Thank you for purchasing your smart home product.
Ready to get started?
Download the Smart Life app to manage your smart home products (and all other smart devices) straight from your phone or tablet.
Easily connect to your home Wi-Fi and control multiple devices with the touch of your fingertips.

Introduction

ECF-SOP20 is an easy-to-use, safe and reliable dual relay output temperature controller. It can be used as overtemperature protection and automatic temperature control system for various electric appliances such as equipment for home-brew, pet breeding,incubation, seedling heat mats, terrestrial heat control, constant temperature cycle of heating pump, culture fermentation, accelerating germination, electric radiator, electric oven, etc.

- Plug and play design, easy to use – two steps to complete
- Control Your Device From Anywhere - Control your device from wherever you are with the free smart life app.
- Dual relay output - Be able to connect with refrigeration and heating equipment at the same time
- LED Display - Be able to show measured temperature and set temperature at the same time
- Temperature Unit - Supports Centigrade or Fahrenheit
- High and low temperature alarms are available
- Group Control – Create a group to control different home devices at the same time.
- Delay protection for cooling
- Share devices:①. You can share the devicewithyour family, and then different people can control it without setting up again.

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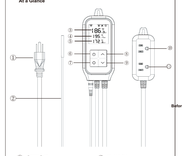
At a Glance



① Power Plug
② Temperature Sensor
③ Current temperature
④ High temperature
⑤ Low Temperature
⑥ Power Button
⑦ Setting Button
⑧ Increase Button
⑨ Decreases Button
⑩ Heating output Socket
⑪ Cooling Output Socket

Product Description

Power Plug：US Standard
Socket Panel：AC Socket in accordance with US Standard
Power Button: can be used as a left pairing button
Decrease Button: Long press 3S to turn off the buzzer
Setting Button: can be switch Centigrade or Fahrenheit unit

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Specifications

Model: ECF-SOP20
Power Voltage: AC100-250V, 50/60Hz
Rated Current: 10A Max.
Temperature measurement Range: -30~105 ℃ / -22~221 ℉
Wireless Frequency: 2.4GHz
APP Control: Smart Life APP (Android 4.4/IOS 8.0 or above)
Type of temperature probe: RDS-10K (2.1m), B25/85=3435K±1%
Temperature Accuracy: 1%

NOTE:
Before installing Smart Lift App, please check your home network setting as following:

1.Check your home routers or related: please use 2.4G Wi-Fi network. Recommend set your 2.4G network and 5G network different names.
2. Your phone is connected with your home 2.4G Wi-Fi network.
3. To stay strong Wi-Fi connection, please keep smart device close to router.
4. Whether connected devices have reached the maximum number of router connections, if so, remove the device from the filter list and make sure that router is not prohibiting device from connection.
5. Please use English and numbers to name your Wi-Fi router. Otherwise the Smart Device may not recognize it when you try to add it into Smart Life.

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STEP 1
How to Download Smart Life App

1. Scan the QR code to download and install Smart Life app for iOS or Android phone.
2. If you cannot download Smart Life app, please search "Smart Life" on Google Play (for Android phone) or Apple Store (for iOS phone) to download.

Download Smart Life APP

Google play
Download on the App Store

STEP 2
How to Sign Up an Account

You will need to sign up for an account after downloading the app. There are two ways to sign up for an account, using your cell phone number or your email address. Select the country you living in, and enter your cell phone number or email whichever makes you feel comfortable.

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1. If cell phone number is entered, you will receive a text message with registration code. Type the code, your password and confirm.
2. If you enter email, you will be asked to create a password and then Confirm. Tap "Next" to continue.

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STEP 3
How to Add a Device via Quick Connection

1. Open the Smart Life app and click the button "+" at the top right corner to add device.
2. Plug your Smart Temperature Controller into an electrical outlet. Make sure your smart phone is connected with your home 2.4G Wi-Fi network.
please press and hold the power button for 3-5 seconds to reset the device. Then, the WiFi icon on Screen will flash 3 times per second when it is ready to pair.
select "Socket（Wi-Fi）" and "Confirm indicator rapidly blink" to add your device

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3.You will be asked to enter your Wi-Fi password after step 3. (Note: our Smart Device supports 2.4GHz Wi-Fi network only. Please confirm your home network before connecting it), choose 2.4GHz Wi-Fi network to connect your phone and the Smart Device.

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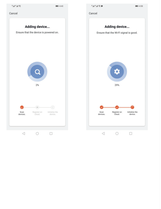
4. Once you enter your Wi-Fi password, the system will take a moment to connect.



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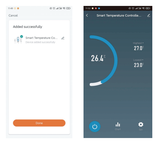
5. After successfully connecting, you can modify the Smart Device's name.



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FAQ

1. If you cannot add your Smart Device , please check:
1) Whether the Smart Device is powered on.

2) Whether the phone is connected with 2.4GHz Wi-Fi network.

3) Whether the Smart Device is ready for configuration. To get it ready before configuration, normally you can manually press and hold the power button for 3-5 seconds. If the WiFi icon on Screen flash 3 times per second,it means that it is ready for configuration.

4) Please check routers or related: If your router is dual-band, please select 2.4GHz Wi-Fi network to connect your phone and Smart Plug.

5) Setting up Wi-Fi router: setting encryption method as WPA2-PSK and authorization type as AES, or set both as auto. Wireless mode cannot be 11N only.

6) Please use English and numbers to name your Wi-Fi router. Otherwise our Smart Plug may not recognize it when you try to add it into Smart Life.

7) To stay strong Wi-Fi connection, please keep smart device close to router.

8) Whether connected devices have reached the maximum number of router's connections. If so, please turn off some devices connected to the router and try again.

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2. If you cannot add the device in Quick Connection, please choose "Adding device in AP Mode".

3. If you would like to reset the device, please press and hold the power button for 3-5 seconds. Once you have reset the smart device, you will find that the WiFi icon on Screen will flash 3 times per second.

4. If you cannot add the device after choosing 2.4G Wi-Fi network, please make sure that your Wi-Fi password is correct.

5. Router's wireless MAC filtering function is enabled. Remove the device from the filter list and make sure that router is not prohibiting device from connection.

6. If you cannot log in the app, please make sure that your password and ID are correct.

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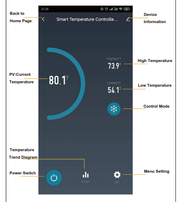
Getting to know "Smart Life" APP



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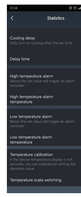

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Button Operation Instructions

1. Turn ON / Turn OFF
Press ⏻ the screen will be displayed. Press ⏻ the screen & socket turn off

2. Maximum Temperature Setting

2.1 High temperature alarm
Long press the setting key 3s, the decimal place will be flash, click the setting key could choose the number of digits, long press could be turn up or turn down. Press the setting key to confirm.

2.2 Minimum Temperature Setting
Long press the setting key 3s, the decimal place will be flash,click the setting key could choose the number of digits.
Long press could be turn up or turn down. long press the setting key 3s to exit the setup

3. C/F Switch
Press the setting key, switching between C/F

4. Turn ON/OFF the Buzzer
Can turn on/off the buzzer by long press the the down key.
🔔 will be show the state

5. Other Function
5.1 When the temperature sensor circuit is short-circuited or open-circuit fault, the controller starts the probe fault mode, it will close all execution states, the buzzer sounds , then press any button to eliminate the buzzer sound, after the fault is removed, it will return to the normal working mode.
5.2 When the controller is powered off or in the state of disconnected, the mobile APP will still show online state ,and the disconnected state will be showed after 1~3 minutes.

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Control Function Instructions

1.Heating Mode
When the measured temperature PV<(LVL(Low Temperature Value) , the controller will enter the heating state, the 🔥 is on, HEATING output works.
When the measured temperature PV ≥ HV（HIGH Temperature Value), the 🔥 is off and the HEATING output turns off.

2. Cooling Mode
When the measured temperature PV > HV (High Temperature Value) ,
The controller will enter the cooling state, the ❄ is on, COOLING output works.
When measured temperature PV ≤ LV+2℃ (Low Temperature Setting Value), The ❄ is off and the COOLING output turns off

3. Normal Mode
The machine do not work while the measured temperature is between HV&LV, the icon is not display.
Note: The next mode will be started in 0s

For example :setting HV=26.0℃ , LV=23.0℃ ,
when the PV ≥ 26.0℃ , the controller will enter the Cooling state;
when the PV < 25.0℃ , the cooling will stop
when the PV < 23.0℃ , the controller will enter the Heating state;
when the PV > 24℃ , the Heating will stop

4. Alarm High /Low Temperature Limit
When measured temperature > AH (high temperature limit alarm),
the buzzer will 3s0-BP/alarm, until the temperature < AH, buzzer off , Or press any button to turn the buzzer alarm off only.
When measured temperature < ALOw temperature limit alarm),
The buzzer will 1s3-Bi " alarm, until the temperature >AL, buzzer off
Or press any button to turn the buzzer alarm off only .

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Quality Assurance

We committed to 90 days returns replacements and exchanges, and 12 month quality warranty.
If you want to extend warranty to 2 years, please join our smart family by scanning the following QR code.

Quality Warranty

Contact us

For any inquiries comments concerning to our products, please do no hesitate to send us email, and we will respond to you as soon as possible.

We appreciate your support!
WITESHE customer service email:
witeshesservice@outlook.com

Warning：

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help.
NOTE: This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter

RF Exposure Statement

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance of 20Cm the radiator your body. This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter