

78mm

135mm



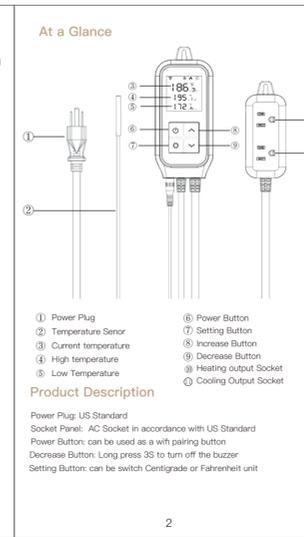
Thank you for purchasing your smart home product. Ready to get started?

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**

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: You can share the devices with your family, and then different people can control it without setting up again.



**Specifications**

Model: SOP20  
 Power Voltage: AC100–250V, 50/60Hz  
 Rated Current: 10A Max  
 Temperature measurement Range: -30~105 °C / -22~221 °F  
 Wireless Frequency: 2.4GHz  
 APP Control: Smart Life APP (Android 4.4/iOS 8.0 or above)  
 Type of temperature probe: R25=10K Q ±1% 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.

**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.

**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.

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.

**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

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.

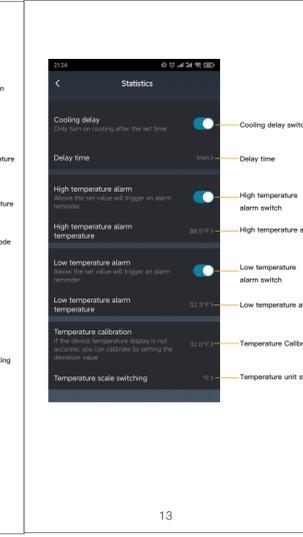
4. Once you enter your Wi-Fi password, the system will take a moment to connect.

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

**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.

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.



**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 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. Press the setting key to confirm.  
 2.2 Minimum Temperature Setting  
 Long press the setting key 3s, the decimal place will be flash, click 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 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.

**Control Function Instructions**

1. Heating Mode  
 When the measured temperature PV < LV (Low Temperature Value), the controller will enter the heating state, the HEATING output works. When the measured temperature PV > HV-2°C (High Temperature Value), the HEATING is off and the HEATING output turns off.
2. Cooling Mode  
 When the measured temperature PV > HV (High Temperature Value), the COOLING is off and the COOLING output turns off. When measured temperature PV < LV+2°C (Low Temperature Setting Value), the COOLING 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 15s  
 For example, setting HV=26.0°C, LV=23.0°C, when the PV > 26.0°C, the controller will enter the Heating state; when the PV < 23.0°C, the cooling will stop when the PV > 23.0°C, the controller will enter the Heating state; when the PV < 24.0°C, the Heating will stop
4. Alarm High /Low Temperature Limit  
 4.1 when the device is connected WIFI  
 When measured temperature > AH (high temperature limit alarm), the buzzer will bi-bi-Bi! alarm, until the temperature < AH, buzzer off. Or press any button to turn the buzzer alarm off only.  
 When measured temperatures < AL (low temperature limit alarm), The buzzer will bi-bi-Bi! alarm, until the temperature > AL, buzzer off Or press any button to turn the buzzer alarm off only.  
 4.2 when the device is unconnect the WIFI  
 When measured temperature > HV+9°F, the buzzer will bi-bi-Bi! alarm, until the temperature < HV+9°F, buzzer off. Or press any button to turn the buzzer alarm off  
 When measured temperatures < HV+9°F, The buzzer will bi-bi-Bi! alarm, until the temperature > HV+9°F, buzzer off Or press any button to turn the buzzer alarm off

**Contact us**

For any inquiries concerning to our products, please do not hesitate to send us email, and we will respond to you as soon as possible.

We appreciate your support!

Thank you for your support and purchase at we Moes, we are always here for your complete satisfaction just feel free to share your great shopping experience with us.

★★★★★

If you have any other need, please do not hesitate to contact us first, we will try to meet your demand.

**FOLLOW US**

@moessmart  
 @moes\_smart  
 @moes\_smart  
 @moes.net

MOES WIRELESS HOME ENERGY CONTROL SYSTEM  
 Address: Power Science and Technology Innovation Center, No.226, Shu 11 Road, Taoyuan Economic Development Zone, Taoyuan, Taoyuan, China  
 Telephone: 001-22188820  
 Email: service@moesmart.com

MOES WIRELESS HOME ENERGY CONTROL SYSTEM  
 Telephone: 001-22188820  
 Made in China