# G7 MIPI User Manual

G7 mipi is an intelligent fresh air ventilation controller that integrates multiple sensors such as PM2.5, CO2, temperature, humidity, etc. The device adopts a 7-inch HD color screen and a high-sensitivity touch screen design. The device is equipped with WIFI, which can be remotely accessed and controlled through the Internet. At the same time, RS485 port and MODBUS protocol are reserved for communication with smart home, building intelligent control, etc.

The AC version of the controller can output relay signals to directly control the start, stop and speed regulation of the AC fan, and the DC version can output two separate control voltages to control the start, stop and speed regulation of the DC fan. It can be widely used in residential, commercial and industrial occasions, and can effectively improve air quality and create a healthy, comfortable, efficient, environmentally friendly and energy-saving living and working environment.
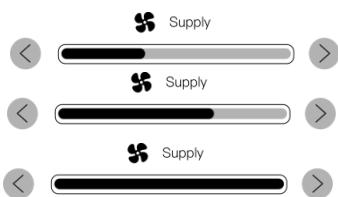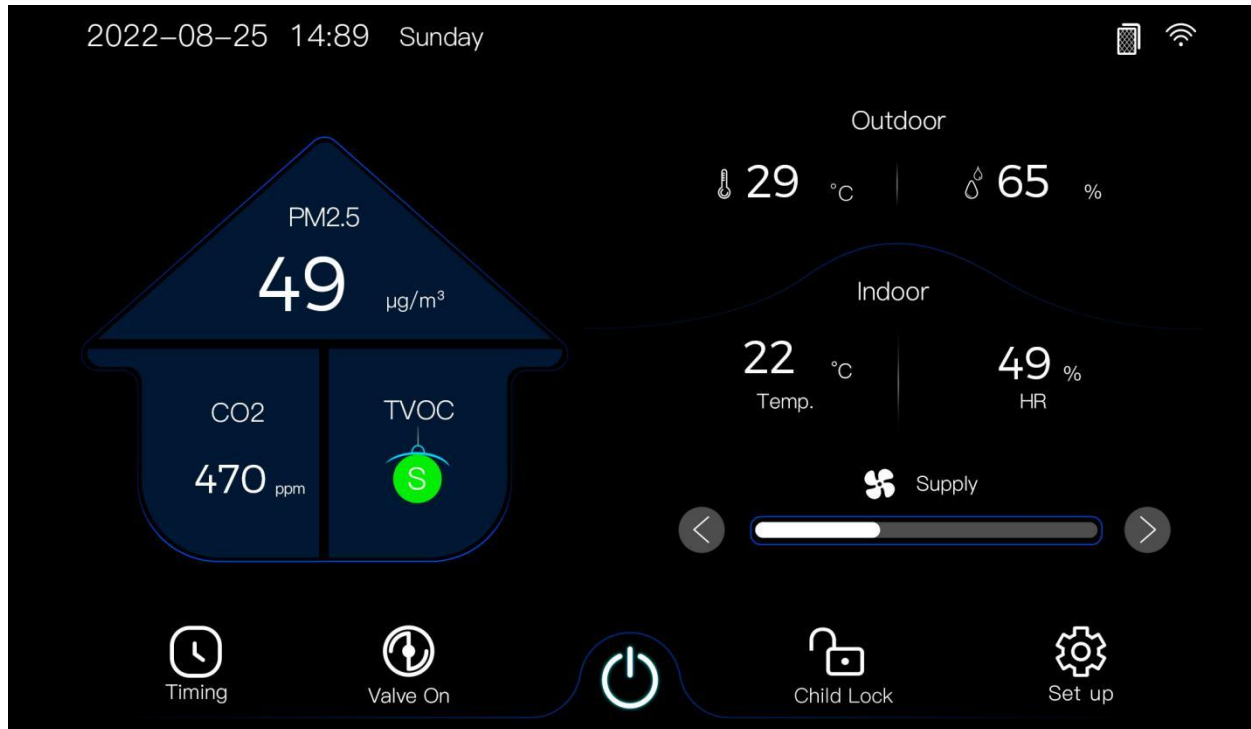
Displays the current running fan speed, and can manually adjust the fan speed.

Power button.

Long press to turn on or off the child lock function.

The working mode can be switched.

The air valve can be opened and closed.

Setting

WiFi Date Timer Backlight RS485

Filter PM2.5 CO₂ Fan Other

Return
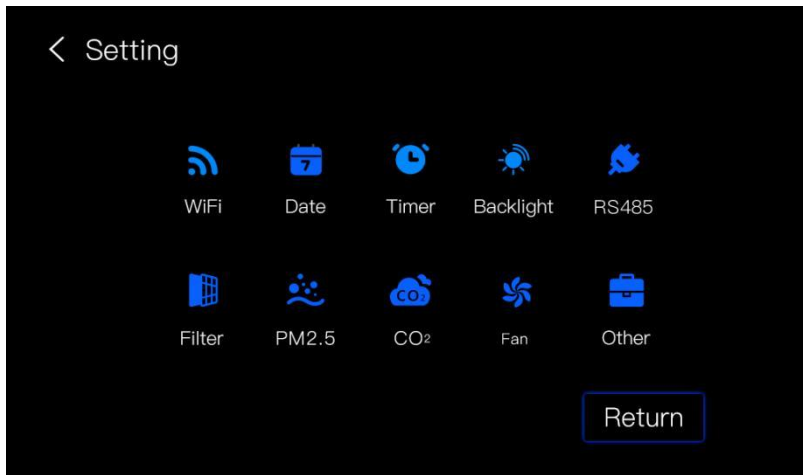
Long press **Set up** ⚙ button to enter the Setting interface.

Wifi Configuration

Wifi connected to the server!

Return

1,1.Scan the OR code, download and install the TUYA APP;
2.New users need to register before using the APP;
3.Long press the wifi icon until the wifi icon starts to flash;
4.Turn on the Bluetooth function of the mobile phone;
5.Open the TUYA APP on the mobile phone and click the '+' icon in the upper right corner;
6.Select the device that can be added on the APP, and follow the prompts to successfully configure the network;
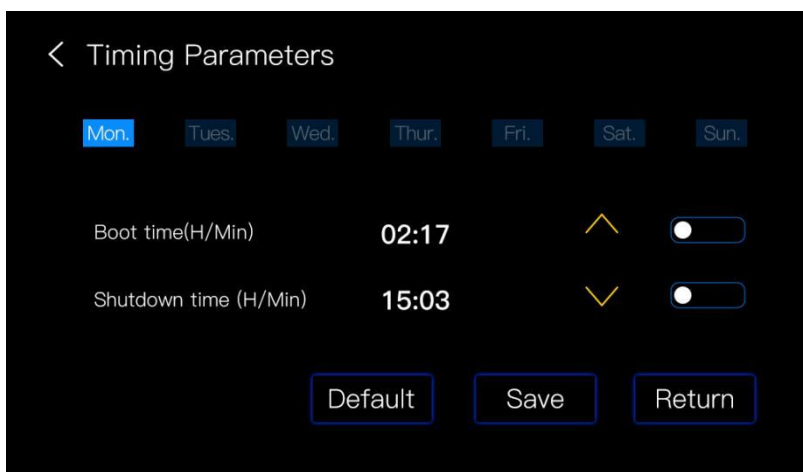Note that the device only supports the 2.4G signal of the router.

Click **WiFi** 🛜 to enter the WIFI configuration interface.

Download and install the APP according to the interface prompts; long press the WIFI icon until the WIFI icon starts to flash; turn on the Bluetooth function of the mobile phone, open the "+" in the upper right corner of the APP to add a device, and follow the prompts to complete the network configuration operation.

Date&Times

Mon. Tues. Wed. Thur. Fri. Sat. Sun.

D/M/Yr: 04/01/2024 ∧

H/Min/S: 15:03:25 ∨

Save Return
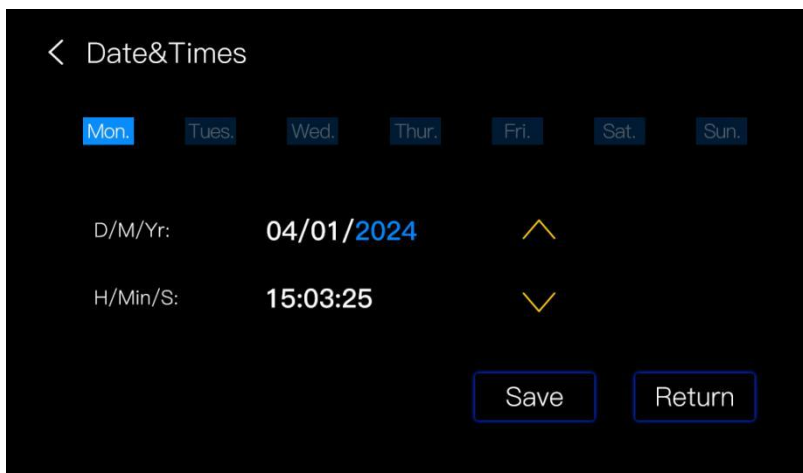
Click **Date** 📅 to enter the date setting interface.

Select the time parameter to be set, and click ∧, ∨ to adjust the data.

Timing Parameters

Mon. Tues. Wed. Thur. Fri. Sat. Sun.

Boot time(H/Min) 02:17 ∧ ⬤

Shutdown time (H/Min) 15:03 ∨ ⬤
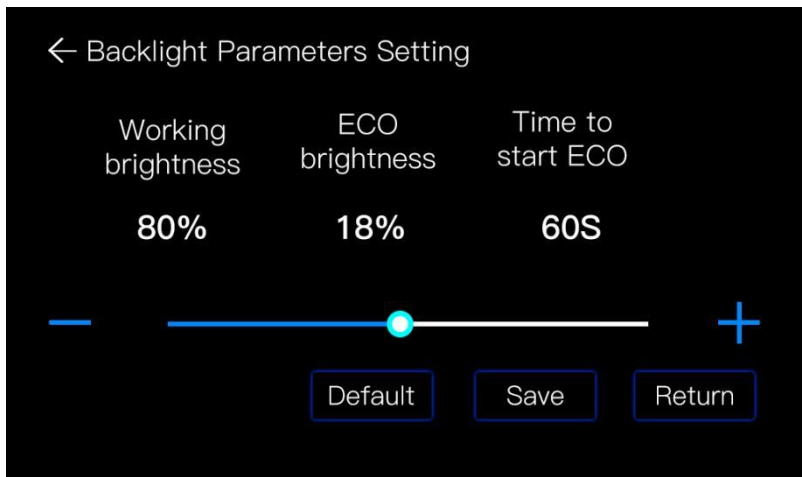
Default Save Return

Click **Timer** ⏰ to enter the timing parameters setting interface.

Select the timing parameters to be set, and click ∧, ∨ to adjust the data;

Click Default to restore to the initial value.

The parameters in this interface are only valid in timing mode.

← Backlight Parameters Setting

Working brightness	ECO brightness	Time to start ECO
80%	18%	60S

— ⚪——————— +

Default   Save   Return

Click ☀ Backlight to enter the backlight setting interface.
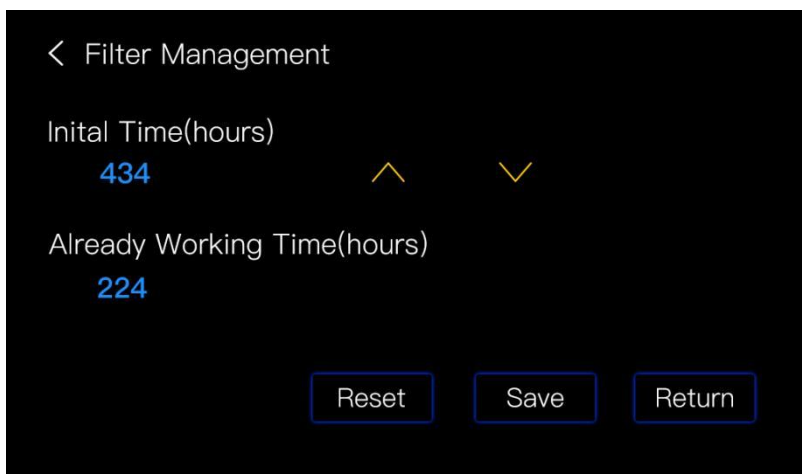
Select the parameter to be set, and click "-" or "+" to adjust the data;

Click Default to restore to the initial value.

‹ RS485 Address

Address data range:1~127

0 0 1   ∧   ∨

Save   Return
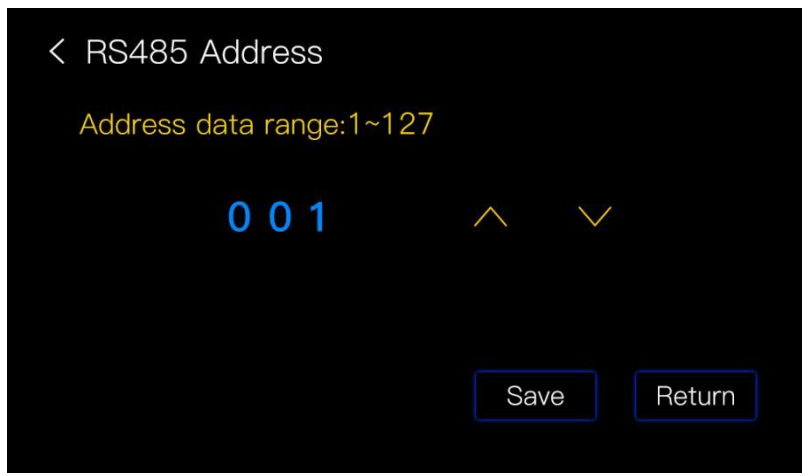
Click 🔌 RS485 to enter the RS485 address setting interface.

Click ∧, ∨ to adjust RS485 communication address.

‹ Filter Management

Inital Time(hours)
434   ∧   ∨

Already Working Time(hours)
224

Reset   Save   Return

Click ▦ Filter to enter the filter setting interface.

Click ∧,∨ to adjust the filter working initial time.

Click Reset to reset the filter working time.

‹ PM2.5 Control Parameters   🔵

Hystersis   05   ∧   ∨

35   080   120
—⚪—————————⚪—————⚪— +
stop   Low   Medium   High

Default   Save   Return
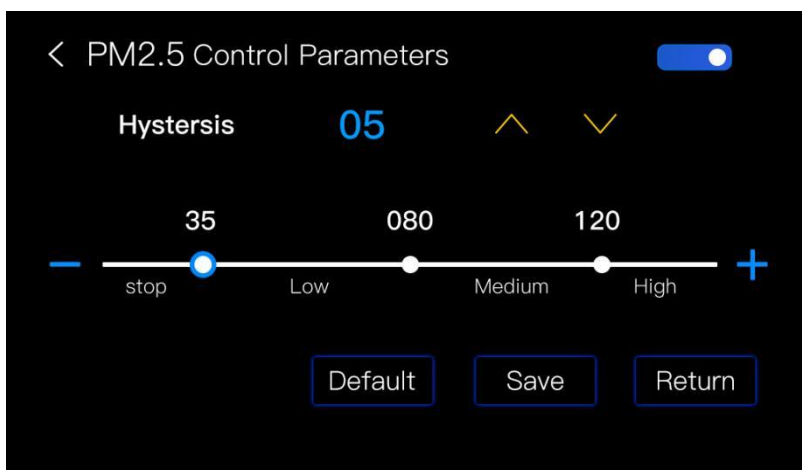
Click ⋯ PM2.5 to enter the PM2.5 parameter setting interface.

Select the parameter to be set, and click ∧, ∨ or "-", "+" to adjust the data;

Click 🔘 to set whether PM2.5 participates in fan control; the parameters in this interface are only valid in automatic mode.
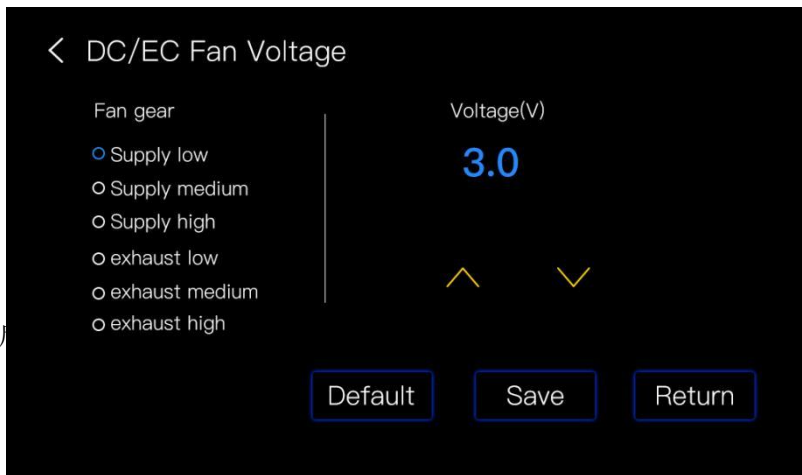
CO₂ Control Parameters

< CO₂ Control Parameters

Hystersis **100** ∧ ∨

600   1200   1800

− ●————————●————————●———— +

stop   Low   Medium   High

Default   Save   Return
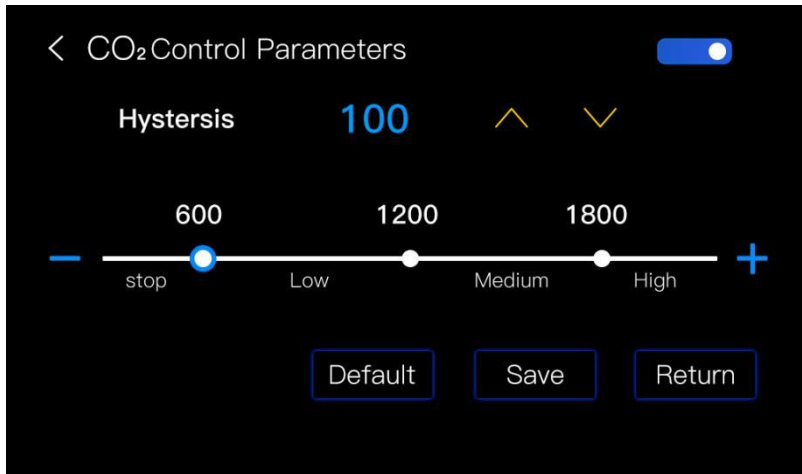
Click CO₂ to enter the CO2 parameter setting interface.

Select the parameter to be set, and click ∧ , ∨ or "-", "+" to adjust the data;

Click Default to restore to the initial value;

Click ● to set whether CO2 participates in fan control; the parameters in this interface are only valid in automatic mode.

DC/EC Fan Voltage

< DC/EC Fan Voltage

Fan gear   Voltage(V)

○ Supply low   **3.0**
○ Supply medium
○ Supply high
○ exhaust low
○ exhaust medium   ∧   ∨
○ exhaust high

Default   Save   Return

Click to enter the DC fan voltage setting interface

Select the parameter to be set, and click ∧, ∨ to adjust the data;

Click Default to restore to the initial value;

The parameters in this interface are only valid for the DC fan version.

Other Features

< Other Features

Screensaver   ●

Save   Return
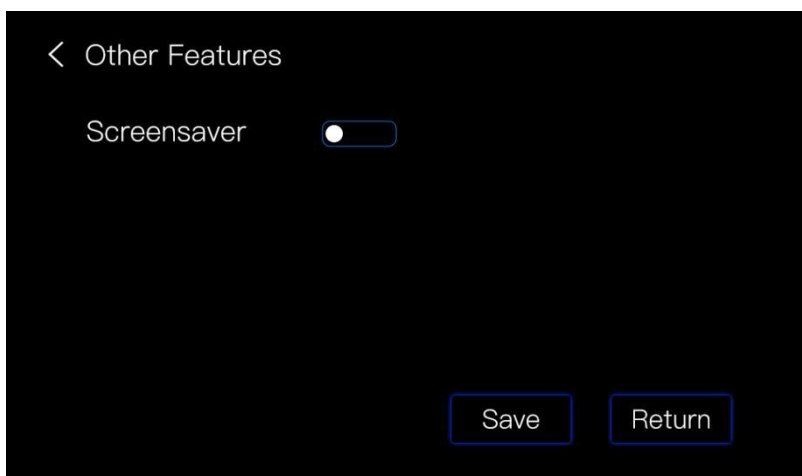
Click Other to enter the screen saver setting interface.

Click ● to set whether to enable the screen saver function on the display.

Wiring diagram:

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

N | L | High | Medium | Low | Valve open | Valve closed | A | B

RS485

Fan

Valve

AC220V~ 50/60Hz