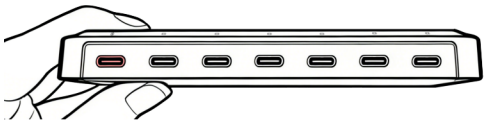
APP Operation Instructions

I. Device Connection

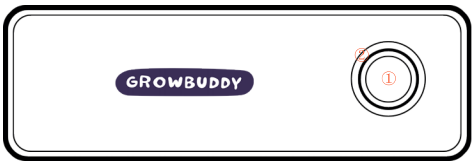


①:Connect the power adapter to the controller.
*Insert the power cable into the leftmost port.

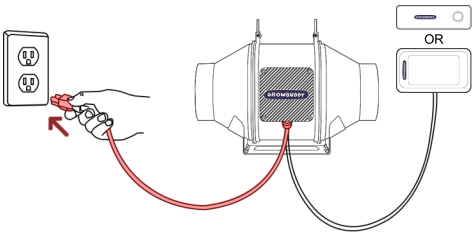
II. APP Connection

Software Compatibility:
iOS:11.0 or later
Android:7.0 (Nougat) or higher

①:Download and install the "Tuya Smart" APP.
Open the APP, search for the controller viaWi-Fi, and complete the pairing process(First-time connection requires pressing the top -right reset button on the screen for network pairing. See Controller Operation Instructions for details.)



②:Connection Activation: Press Round Button①,
Red light: Connecting ②,Do not perform any operations until the green light (indicating successful connection) turns on,The light will turn off automatically after 5 minutes.
*Press and hold the round button until the indicator ring turns red to restart the controller module.



The same procedure applies to all power-consuming devices

③:Connect the signal cable between device and controller, ensure a secure connection.

Attention:

1.The controller screen remains showing "Under APP Control" during any operation on Auto Mode, device timers, or Sunrise & Sunset settings via the APP.

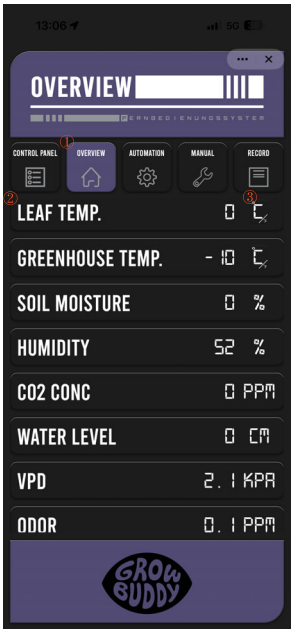
2.The controller will resume normal local operation only after you exit Auto Mode and delete all configured device timers and Sunrise & Sunset timers from the APP.

III. Control Panel Overview

Four main function tabs are listed vertically on the left: Overview①, Auto Mode②, Manual Mode③, and Record④.

The top-right corner has Toggle the device ON/OFF for quickly changing between Auto⑤ and Manual⑥ modes.

IV. Main Interface Overview

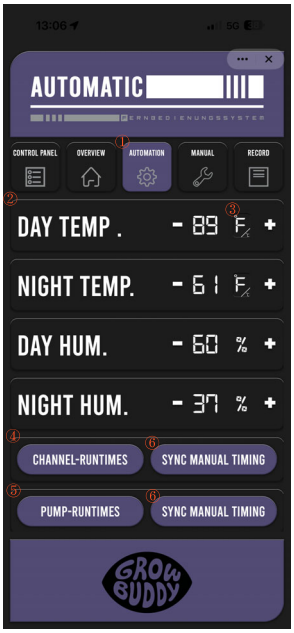


①:Tap the Overview tab or navigation button to enter this screen.

②:Core Monitoring Data Displays: Leaf Temperature, Greenhouse Temperature,Soil Moisture,Humidity,CO2 Conc, Water Level,VPD and ODOR.

③:Tap the Temp. unit (°C/°F) to switch the display unit

V. Auto Mode Settings



①:Tap the Auto Mode tab to enter.

②:Use the +/- buttons to set Target Temp. and Humidity.

③:Tap the Temp. unit (°C/°F) to switch the display unit

④:Set a timer for Light Channel 1: Standard / Sunrise & Sunset(See next item for details) as follows

⑤:Set a timer forthe Pump as follows

⑥:Once pressed, the device will automatically sync the timer settings you have previously set in Manual Mode.

*Please finalize your temperature unit selection before setting up Auto Mode. Switching units after configuration may introduce temperature control deviations.

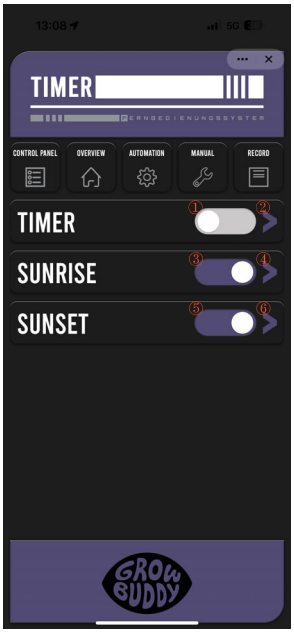
Example 1:
With a target temperature of 20°C and target humidity of 60%RH, the high temperature and high humidity triggers activate when actual temperature reaches 25°C and actual humidity reaches 70%RH. The fan and dehumidifier will then operate.

·**Example 2:** With a target temperature of 20°C and target humidity of 60%RH, the low temperature and low humidity triggers activate when actual temperature drops to 15°C and actual humidity drops to 50%RH. The heater and humidifier will then operate.

Daytime period: 06:00 – 18:00 local time

Nighttime period: 18:00 – 06:00 local time (next day)

Timer Menu



①:Toggle the device ON/OFF.

②:Tap “>” next to Set on/off time, gear, and repeat days

③:Toggle the device ON/OFF.

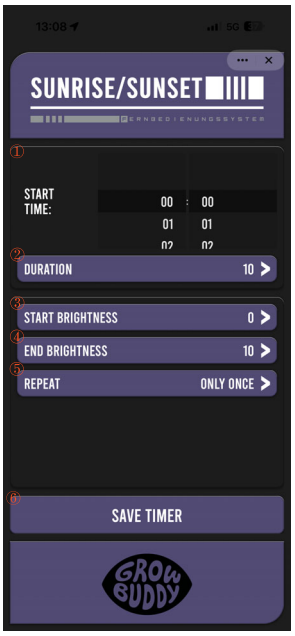
④:Tap “>” next to Set the duration, start and end brightness level, and repetition days of sunrise

⑤:Toggle the device ON/OFF.

⑥:Tap “>” next to Set the duration, start and end brightness level, and repetition days of the sunset

*The Standard Timer and Sunrise & Sunset Timers cannot run simultaneously. Enabling one will automatically turn off the other.

Sunrise & Sunset Timer



①:Set the start time of the dimming cycle.

②:Set the duration of the gradual brightness transition.

③:Set the dimming level at the start of the cycle

④:Set the dimming level at the end of the cycle.

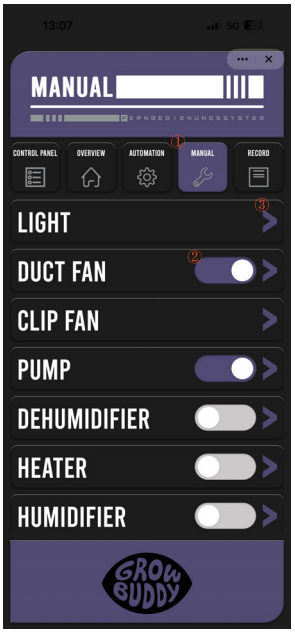
⑤:Select the days of the week for the timer to repeat.

⑥:Verify all parameters and click “SAVE”to confirm your settings.

*①:Both sunrise & sunset timers must be enabled to form a full cycle; single activation will cause constant lighting Or turn off the lighting.

②:Sunrise:Start Brightness < End Brighthess Sunset: Start Brightness > End Brighthess Incorrect settings will disable the cycle.

VI. Manual Mode Settings

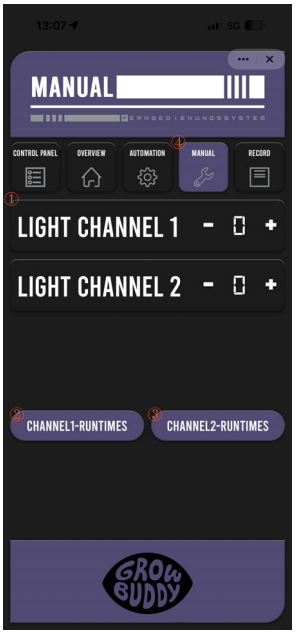


①:Tap the Manual button to enter.

②:Toggle the device ON/OFF.

③:Tap “>” next to any device for Device setup instructions below.

Grow Light



①:Adjust brightness for Channel 1/2:0-10.

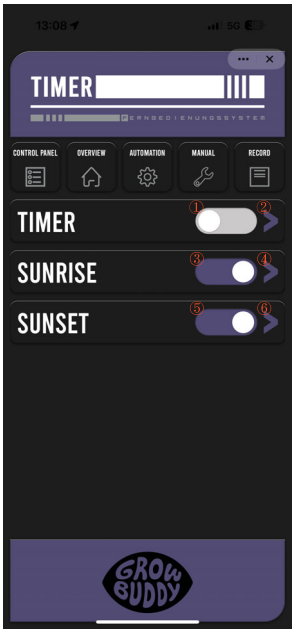
②:Set the timing for Channel 1 Standard / Sunrise & Sunset (See next item for details)

③:Set the timing for Channel 2(You need to set at least one ON command and one OFF command; multiple ON/OFF cycles are also supported).

④:After setting up the Grow Light, return to the Manual interface to configure other parameters.

*(The 120W/240W requires UV control on the lamp body, which cannot be turned on or off through channel 2)

Timer Menu



①:Toggle the device ON/OFF.

②:Tap “>” next to Set on/off time, gear, and repeat days

③:Toggle the device ON/OFF.

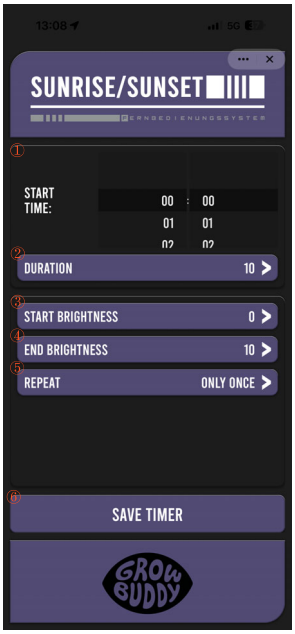
④:Tap “>” next to Set the duration, start and end brightness level, and repetition days of sunrise

⑤:Toggle the device ON/OFF.

⑥:Tap “>” next to Set the duration, start and end brightness level, and repetition days of the sunset

*The Standard Timer and Sunrise & Sunset Timers cannot run simultaneously. Enabling one will automatically turn off the other.

Sunrise & Sunset Timer



①:Set the start time of the dimming cycle.

②:Set the duration of the gradual brightness transition.

③:Set the dimming level at the start of the cycle

④:Set the dimming level at the end of the cycle.

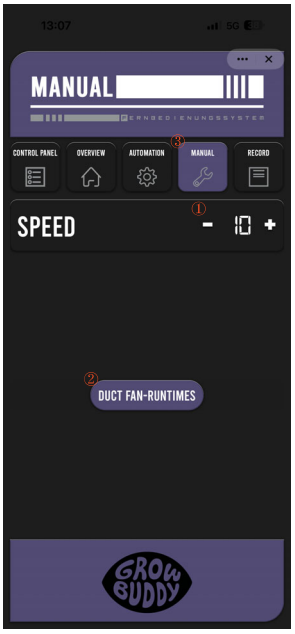
⑤:Select the days of the week for the timer to repeat.

⑥:Verify all parameters and click “SAVE” to confirm your settings.

*①:Both sunrise & sunset timers must be enabled to form a full cycle; single activation will cause constant lighting Or turn off the lighting.

②:Sunrise:Start Brightness < End Brighthess Sunset: Start Brightness > End Brighthess Incorrect settings will disable the cycle.

Duct fan

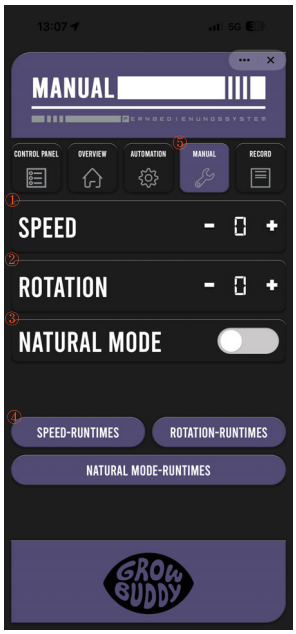


①:Adjust speed:0-10.

②:Set a timer (You need to set at least one ON command and one OFF command; multiple ON/OFF cycles are also supported).

③:After setting up the Duct fan, return to the Manual interface to configure other parameters.

Clip Fan



①:Adjust speed:0-9.

②:Oscillation level: 0-5.

③:Toggle Natural mode ON/OFF.

④:Set a timer (You need to set at least one ON command and one OFF command; multiple ON/OFF cycles are also supported).

⑤:After setting up the Clip Fan, return to the Manual interface to configure other parameters.

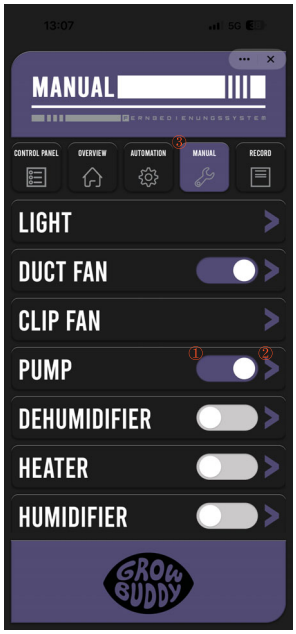
*The natural wind mode will override the Clip Fan speed setting. Turning it off can restore the speed

Pump:

①:Toggle the device ON/OFF.

②:Set a timer (You need to set at least one ON command and one OFF command; multiple ON/OFF cycles are also supported).

③:After setting up the Pump, return to the Manual interface to configure other parameters.

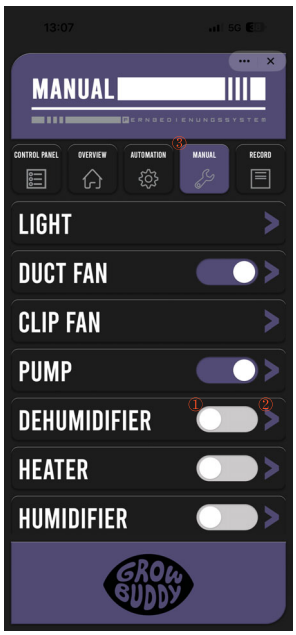


Dehumidifier:

①:Toggle the device ON/OFF.

②:Set a timer (You need to set at least one ON command and one OFF command; multiple ON/OFF cycles are also supported).

③:After setting up the Dehumidifier, return to the Manual interface to configure other parameters.

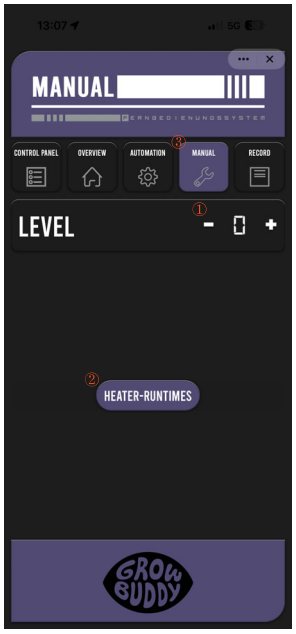


Heater

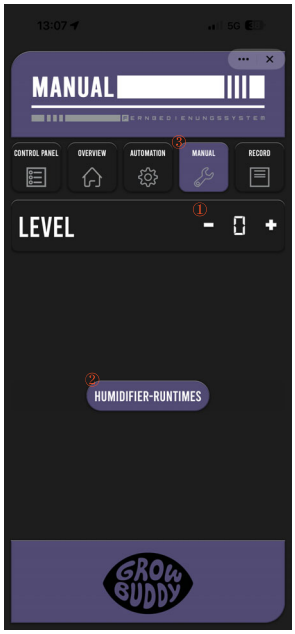
①:Adjust speed:0-10.

②:Set a timer (You need to set at least one ON command and one OFF command; multiple ON/OFF cycles are also supported).

③:After setting up the Heater, return to the Manual interface to configure other parameters.



Humidifier

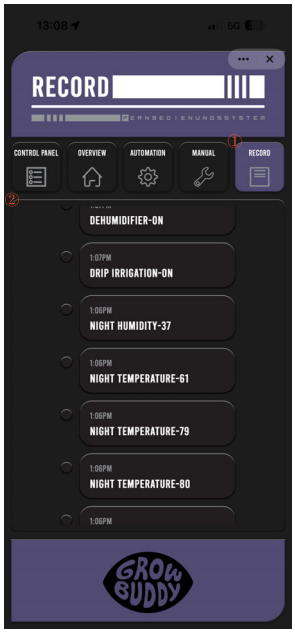


①:Adjust speed:0-10.

②:Set a timer (You need to set at least one ON command and one OFF command; multiple ON/OFF cycles are also supported).

③:After setting up the Humidifier, return to the Manual interface to configure other parameters.

VII. Record interface:



①:Tap the Record tab to view a history of all APP operations.

②:It includes mode changes, parameter adjustments, and device control actions, which is useful for reviewing activity and troubleshooting.

Disclaimer: This controller is equipped with built-in overload protection and only compatible with original matching devices. Do not connect multiple high-power loads in parallel, modify wiring, or use non-original power adapters. Malfunctions caused by unauthorized modification or improper external wiring are not covered under warranty.

Please ensure the operation

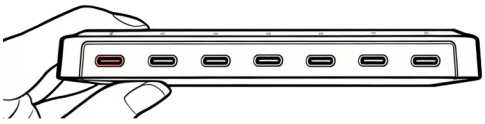
①:Connect the power adapter to the controller.(*Insert the power cable into the l eftmost port.)

②:Connect the signal cable between device and controller, ensure a secure connection.

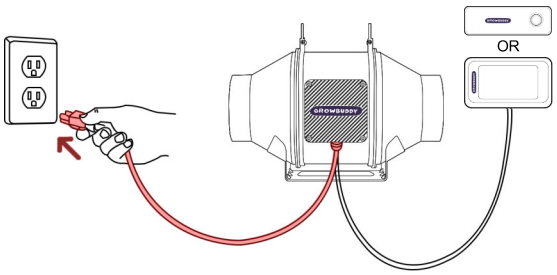
Controller Operation Instructions

I. Device Connection

①:Connect the power adapter to the controller.
*Insert the power cable into the leftmost port.



②:Connect the signal cable between device and controller, ensure a secure connection.



The same procedure applies to all power-consuming devices

Attention:

1.The controller screen remains showing "Under APP Control" during any operation on Auto Mode, device timers, or Sunrise & Sunset settings via the APP.

2.The controller will resume normal local operation only after you exit Auto Mode and delete all configured device timers and Sunrise & Sunset timers from the APP.

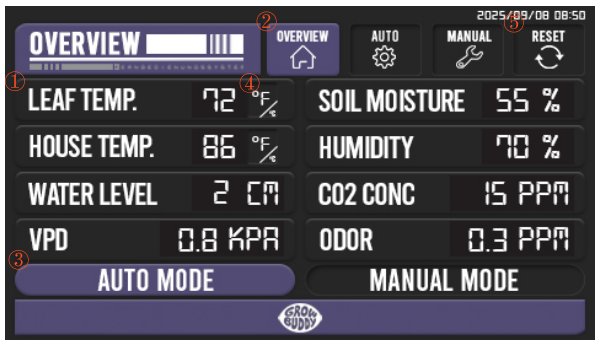
3.After configuring each device or parameter, tap “SAVE” promptly to avoid data loss.

4.During the timer-setting process, double-check the Repeat Days option to ensure the cycle setting takes effect.

5.After the initial “SAVE”, you need to perform a new operation before saving again.

II. Main Interface Overview

①:Core Monitoring Data: Displays: Leaft Temperature,House Temperature, Soil Moisture,Humidity,Water Level,CO2 Conc, VPD,and ODOR



②:Top right: Buttons for the Main Interface: Auto Mode, Manual Mode, Reset, and Time.

③:Bottom: Toggle between Auto and Manual modes.

④:Tap the Temp. unit (°C/°F) to switch the display unit.

⑤:Reset button: ①:First-time APP pairing: Press the top-right reset button on the controller screen.

①:Press the reset button again to reset the network if the APP fails to detect the controller.

III. Auto Mode Settings

①:Tap the top-right Auto button to enter.

②:Use the +/- buttons to set Target Temp. and Humidity.

③:Set a timer for Light Channel 1: Standard / Sunrise & Sunset(See next item for details as follows)

④:Set a timer forthe Pump as follows.

⑤:Once pressed, the device will automatically sync the timer settings you have previously set in Manual Mode.

⑥:Tap “SAVE” to apply the settings.

*Please finalize your temperature unit selection before setting up Auto Mode. Switching units after configuration may introduce temperature control deviations.

*Operation Examples:

Example 1:

With a target temperature of 20°C and target humidity of 60%RH, the high temperature and high humidity triggers activate when actual temperature reaches 25°C and actual humidity reaches 70%RH. The fan and dehumidifier will then operate.

·**Example 2:** With a target temperature of 20°C and target humidity of 60%RH, the low temperature and low humidity triggers activate when actual temperature drops to 15°C and actual humidity drops to 50%RH. The heater and humidifier will then operate.

Daytime period: 06:00 – 18:00 local time

Nighttime period: 18:00 – 06:00 local time (next day)

Timer Menu

①:Toggle the device ON/OFF.

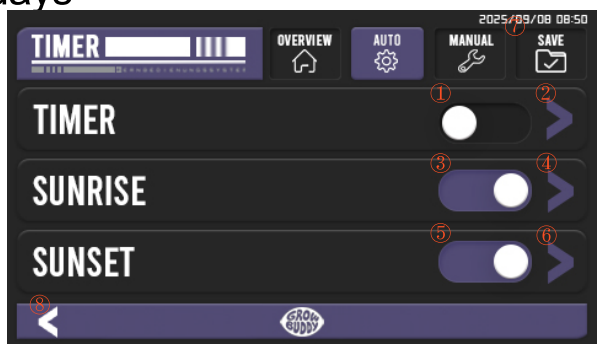
②:Tap “>” next to Set on/off time, gear, and repeat days

③:Toggle the device ON/OFF.

④:Tap “>” next to Set the duration, start, end brightness level, and repetition days of sunrise

⑤:Toggle the device ON/OFF.

⑥:Tap “>” next to Set the duration, start, end brightness level, and repetition days of the sunset



⑦:Set the parameters and click the “SAVE” button.

⑧:After completing the operation,Return to the AUTO interface to set other parameters.

*The Standard Timer and Sunrise & Sunset Timers cannot run simultaneously. Enabling one will automatically turn off the other.

Sunrise & Sunset Timer

①:Set the start time of the dimming cycle.

②:Set the duration of the gradual brightness transition.

③:Set the dimming level at the start of the cycle

④:Set the dimming level at the end of the cycle.

⑤:Select the days of the week for the timer to repeat.

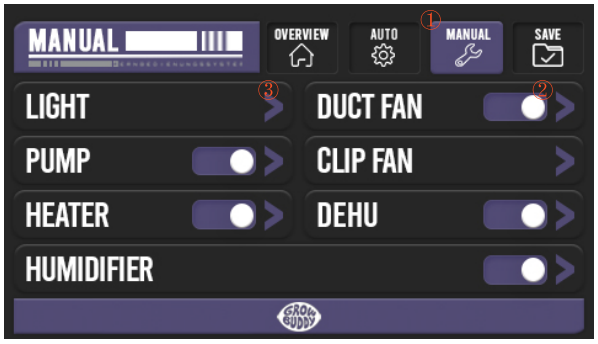
⑥:Set the parameters and click the “SAVE” button.

⑦:After completing the operation,Return to the AUTO interface to set other parameters.

*①:Both sunrise & sunset timers must be enabled to form a full cycle; single activation will cause constant lighting Or turn off the lighting.

②:Sunrise:Start Brightness < End Brighthess Sunset: Start Brightness > End Brighthess Incorrect settings will disable the cycle.

IV. Manual Mode Settings



①:Tap the top-right Manual button to enter.

②:Toggle the device ON/OFF.

③:Tap “>” next to any device to view the corresponding setup instructions below.

Grow Light

①: Adjust brightness for Channel 1/2:0-10.

②:Set the timing for Channel 1 Standard / Sunrise & Sunset(See next item for details)

③:Set the timing for Channel 2(You need to set at least one ON command and one OFF command; multiple ON/OFF cycles are also supported.See next item for details)

④:Set the parameters and click the “SAVE” button.

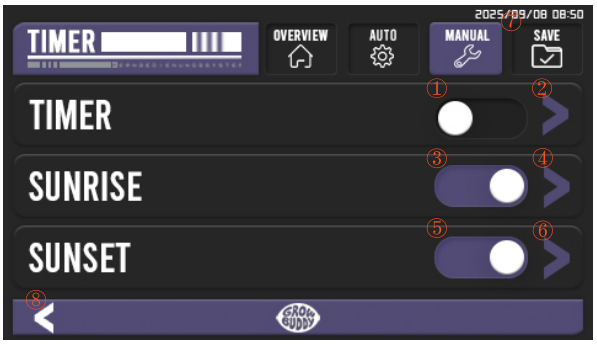
⑤:After setting up the Grow Light,return to the Manual interface to set other parameters.

*((The 120W/240W requires UV control on the lamp body, which cannot be turned on or off through channel 2)

Timer Menu

①:Toggle the device ON/OFF.

②:Tap “>” next to Set on/off time, gear, and repeat days



③:Toggle the device ON/OFF.

④:Tap “>” next to Set the duration, start and end brightness level, and repetition days of sunrise

⑤:Toggle the device ON/OFF.

⑥:Tap “>” next to Set the duration, start and end brightness level, and repetition days of the sunset

⑦:Set the parameters and click the “SAVE” button.

⑧:After completing the operation,Return to the Manual interface to set other parameters.

*The Standard Timer and Sunrise & Sunset Timers cannot run simultaneously. Enabling one will automatically turn off the other.

Sunrise & Sunset Timer

①:Set the start time of the dimming cycle.

②:Set the duration of the gradual brightness transition.

③:Set the dimming level at the start of the cycle

④:Set the dimming level at the end of the cycle.

⑤:Select the days of the week for the timer to repeat.

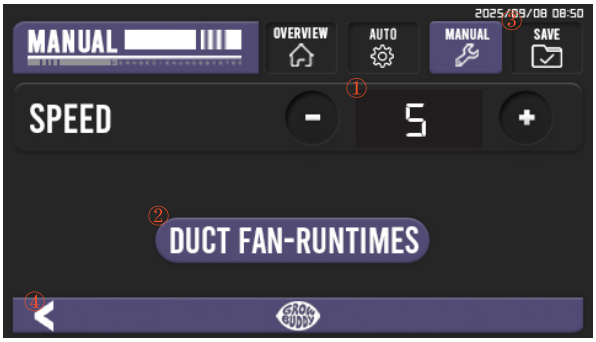
⑥:Set the parameters and click the “SAVE” button.

⑦:After completing the operation,Return to the Manual interface to set other parameters.

*①:Both sunrise & sunset timers must be enabled to form a full cycle; single activation will cause constant lighting Or turn off the lighting.

②:Sunrise:Start Brightness < End Brighthess;Sunset:Start Brightness > End Brighthess Incorrect settings will disable the cycle.

Duct fan



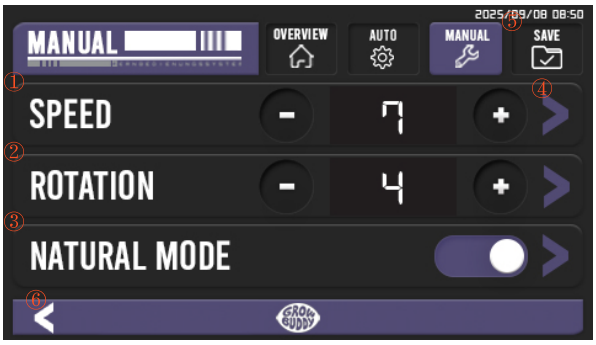
①:Adjust speed:0-10

②:Set a timer (ON/OFF time, repeat days).

③:Set the parameters and click the "SAVE" button.

④:After setting up the Duct fan,return to the Manual interface to set other parameters

Clip Fan



①:Adjust speed:0-9.

②:Oscillation level: 0-5.

③:Toggle Natural mode ON/OFF.

④:Set a timer (ON/OFF time, repeat days).

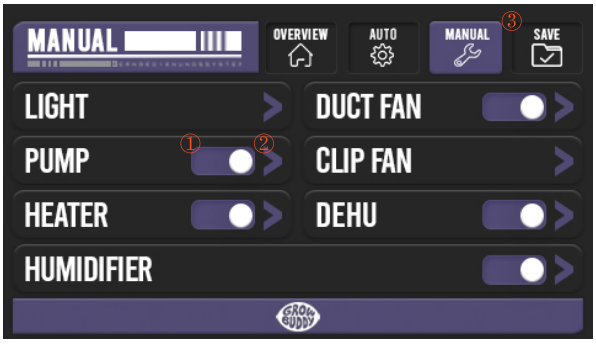
⑤:Set the parameters and click the "SAVE" button.

⑥:After completing the operation,Return to the Manual interface to set other parameters.

*The natural wind mode will override the Clip Fan speed setting.

Turning it off can restore the speed

Pump:



①Toggle the device ON/OFF.

②:Set a timer (ON/OFF time, repeat days).

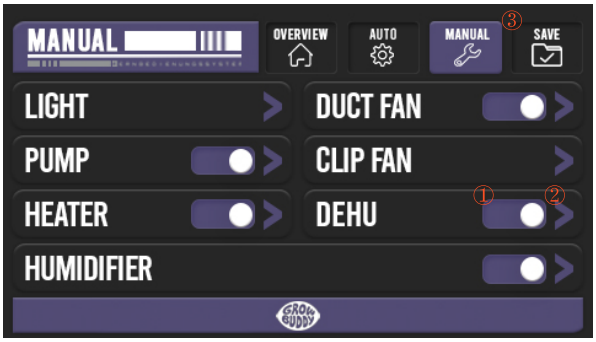
③:Set the parameters and click the "SAVE" button.

Dehumidifier:

①:Toggle the device ON/OFF.

②:Set a timer (ON/OFF time, repeat days).

③:Set the parameters and click the "SAVE" button.



Heater

①:Adjust speed:0-10

②:Set a timer (ON/OFF time, repeat days).

③:Set the parameters and click the "SAVE" button.

④:After setting up the Heater,return to the Manual interface to set other parameters

Humidifier

①:Adjust speed:0-10

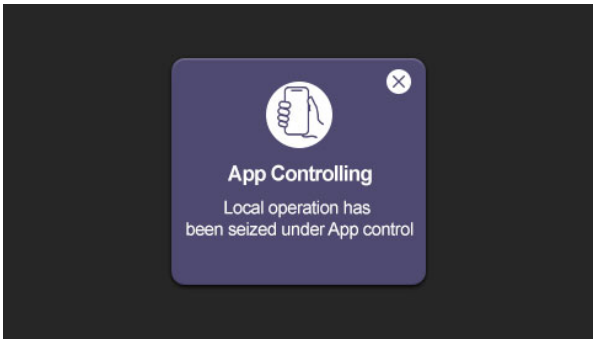
②:Set a timer (ON/OFF time, repeat days).

③:Set the parameters and click the "SAVE" button.

④:After setting up the Humidifier,return to the Manual interface to set other parameters

APP control and local control are mutually exclusive.

The controller will resume normal local operation only after you exit Auto Mode and delete all configured device timers and Sunrise & Sunset timers from the APP.



V. Common troubleshooting

Common Issues	Possible Causes	Solutions
APP fails to find controller	1.Not using a 2.4G Wi-Fi network. 2.Outdated APP version.	1. Please switch your router to 2.4G Wi-Fi and reconnect the APP. 2. Update the "Tuya Smart" APP to the latest version.
Devices unresponsive to controller	1. Loose signal cable. 2. Device power off. 3. Wrong mode selected.	1.Reconnect the signal cable. 2.Check the device's power connection. 3.Switch to the correct "Auto/Manual" mode.
Abnormal temp/humidity display	1. Loose sensor connection. 2.Wrong unit (°C/°F). 3.Uncalibrated sensor.	1.Reconnect the sensor cable. 2.Tap the display to switch units. 3.Power off the controller and restart it.
Auto mode not triggering devices	1. Settings not saved (no “SAVE” click). 2. Unreasonable target temp(out of the 0-90°C range).	1.Re-enter Auto mode, adjust parameters and tap “SAVE”. 2.Set the target Temp. to a range of 0-90°C.
Timer function not working	1.No repeat days selected. 2.Settings not saved. 3.The device has been manually turned off.	1.Select repeat days after setting the timer. 2.Tap “SAVE” to confirm. 3.Ensure the device is ON.
Grow light brightness unadjustable	1.Incorrect channel selected (120W/240W Grow Lights only support Channel 1). 2.Grow Light is powered off.	1.Adjust the brightness via Channel 1 in Manual Mode. 2.Check the Grow Light's power and signal cable.
Duct fan not rotating/abnormal speed	1.Fan speed has been set to 0. 2.Loose power or signal cables.	1.Adjust the speed to 1–10 in Manual mode. 2.Reconnect the power and signal cables.
Clip fan not oscillating	1.Oscillation level has been set to 0. 2.Natural Wind mode is turned off.	1. Set oscillation to 1–5 level. 2. Enable "Natural Wind" mode.
Water pump not working	1.Loose power cable. 2.No timer has been set. 3.Water level is too low to cover the pump inlet.	1.Reconnect the power cable. 2.Set the timer and tap “SAVE”. 3.Ensure the water level covers the pump inlet.
Dehumidifier not starting	1.Current humidity is below the target trigger value. 2.Loose power or signal cables.	1.Lower the target humidity in Auto mode. 2.Reconnect the power and signal cables.
Controller frequently disconnecting	1.Weak Wi-Fi signal. 2.Long distance from the router. 3.Unstable power supply.	1.Move the controller closer to the router or use a Wi-Fi extender. 2.Keep the distance between the controller and the router within 10m. 3.Use the original power adapter.
Cannot switch Auto/Manual mode	1.APP interface lag. 2.Controller has not fully booted up.	1.Restart the controller. 2.Unplug the power cable, wait 10s, and then reconnect the power.

GROW BUDDY

For after-sales support, scan the QR code below.
We will respond as soon as possible. Thank you for your trust.

FCC Warnning:

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 againstharmful interference in a residential installation. This equipment generates, uses and can radiateradio frequency energy and, if not installed and used in accordance with the instructions, maycause harmful interference to radio communications. However, there is no guarantee thatinterference will not occur in a particular installation. If this equipment does cause harmfulinterference to radio or television reception, which can be determined by turning the equipmentoff and on, the user is encouraged to try to correct the interference by one or more of thefollowing 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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.