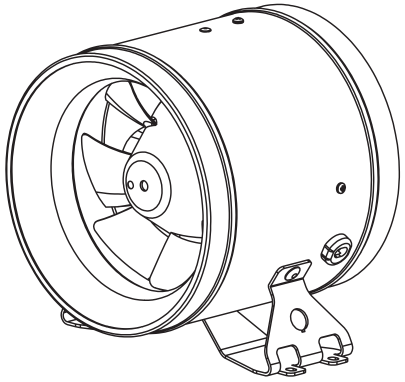
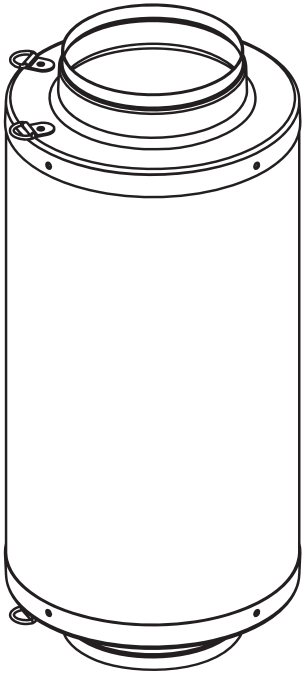
We are committed to delivering high-quality products and services through a strict adherence to international quality standards. Our guiding principles are: first-class products, reliable service, continuous innovation, and integrity in brand building. We guarantee that all products meet relevant industry standards and contract requirements through the following quality service commitments:

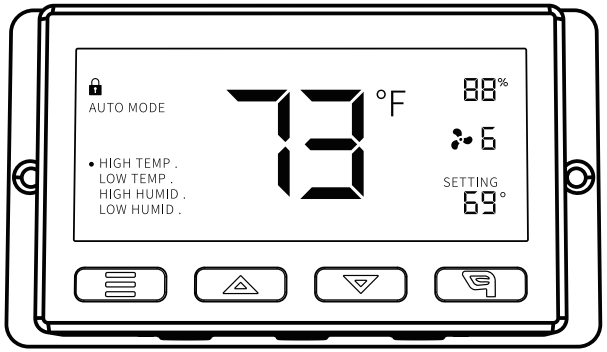




Made in China

PRO GROW DRAGON SERIES

SMART CONTROLLER MANUAL



Product Specifications

- Dimensions: 132 × 75.5 × 28.7 mm
- Input Voltage: 10–24 VDC
- Input Current: 0.2 A (Max)
- Output Signal: PWM (Vh = 10 VDC, 10 kHz)

Product Overview
This is an intelligent fan controller equipped with temperature and humidity sensors. It offers two operating modes:

- **Manual Mode:** Set a fixed fan speed.
- **Automatic Mode:** Adjust fan speed based on preset temperature or humidity thresholds.

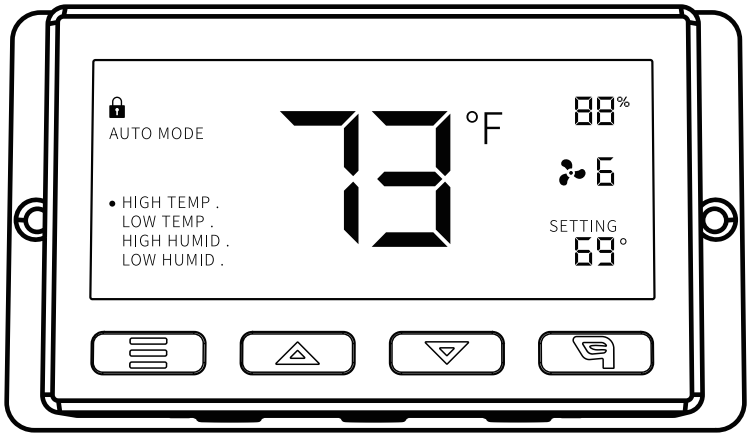
The controller supports dual fan control via two synchronized output ports (OUT1 and OUT2), which provide the same PWM speed regulation signal. Both ports use 3.5mm four-segment audio female terminals.

Note: The product does not include a power cord. If using an auxiliary power cord, it should not exceed 3 meters in length.

Please read the instruction manual thoroughly to ensure safe and proper operation.

Packing List

①



SMART CONTROLLER (132 mm x 76 mm)

②



SENSOR (CABLE LENGTH 3 m)

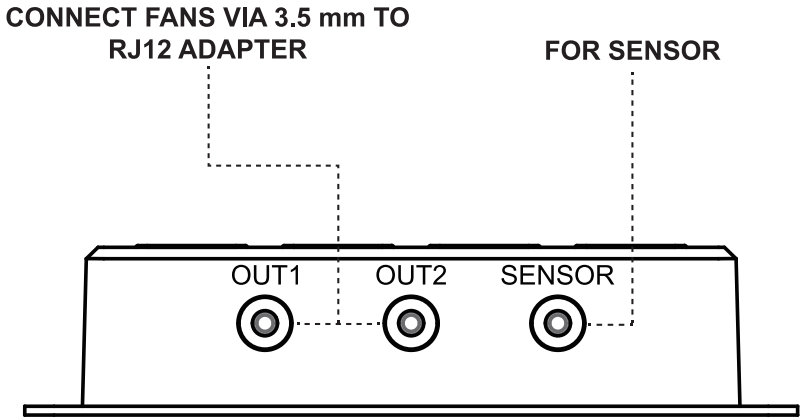
③



3.5 mm to RJ12 ADAPTOR (15 cm)

Installation Instruction

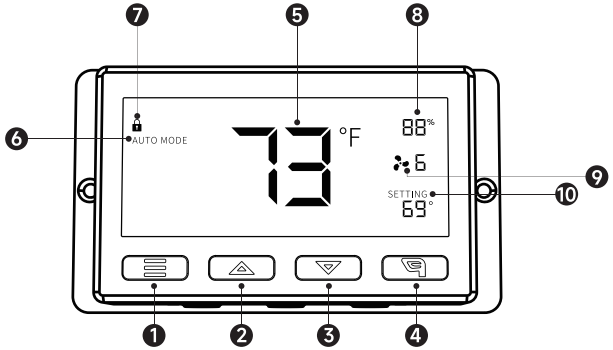
INTERFACE EXPLANATION:



CONNECT A SECOND FAN VIA AN ADDITIONAL 3.5 MM TO RJ12 ADAPTER (SOLD SEPERATELY)

PRO GROW
DRAGON SERIES

Item Overview & Button Functions



Mode Button ❶
Press the Mode button to cycle through the following modes:
ON Mode → OFF Mode → AUTO Mode → Alarm Setting → Timer.
To return to the previous mode, press and hold the Mode button.

Up / Down Buttons ❷ ❸
Use the **Up (▲)** and **Down (▼)** buttons to adjust values in any mode.

Leaf Button ❹
- Tap to turn the screen on or off.
- Press and hold for 3 seconds to lock or unlock the controller.

Temperature & Humidity Display ❺ ❽
Shows real-time temperature and humidity readings from the external sensor probe.

Note: If the sensor is not properly connected, the display will show "—".

Current Mode Display ❻
Indicates which mode the controller is currently operating in. Use the Mode button to switch modes.

Alert Icons ❼
Displays active alerts, alarm notifications, and screen lock status.

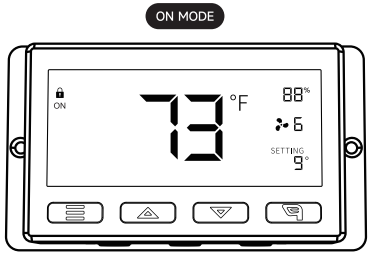
Fan Speed Display ❾
Shows the current operating speed of the connected fan(s).

Set Value Display ❿
Displays the target value for the current mode. Adjust using the Up or Down buttons.

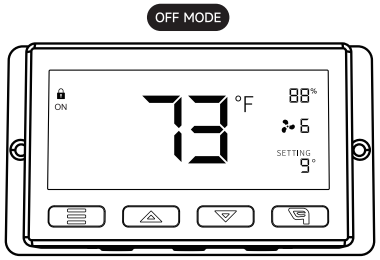
Mode/Settings

Press the Mode button to cycle through the controller's available settings:

- ON/OFF Mode
- TIMER Mode
- AUTO Mode (with 4 trigger options)
- ALARM Settings (with 4 trigger options)

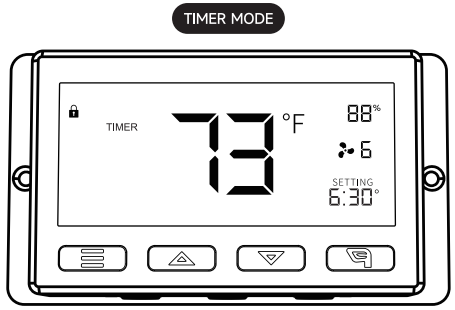


In this mode, the fans run continuously, unaffected by temperature or humidity readings. The speed set here also defines the maximum fan speed limit when operating in AUTO Mode.



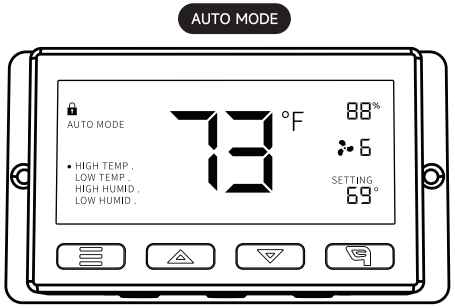
In "Off Mode," the fans remain off regardless of temperature or humidity conditions. You can adjust the display brightness using the Up and Down buttons. There are four brightness levels: 1, 2, 3, and A3.

- On A3, the display will automatically dim to level 1 after 30 seconds of inactivity.
- To switch between Fahrenheit (°F) and Celsius (°C), ensure the controller is in "Off Mode," then press and hold the Up and Down buttons simultaneously.



Timer Mode
In this mode, use the **Up or Down** button to set the countdown duration.
The fans will run at the speed previously set in **ON Mode**, then automatically stop when the timer ends.

- The countdown begins **3 seconds after the last button press.**
- Exiting Timer Mode during the countdown will **pause the timer**, which will resume when you return to this mode.



High Temperature Trigger
In this mode, use the **Up or Down** button to set a high-temperature activation point.

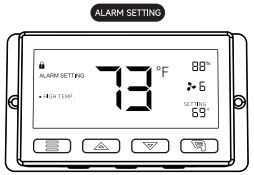
- When the sensor detects a temperature above your set value, the fans will gradually ramp up to the maximum speed set in **ON Mode.**
- When the temperature **drops below the set value**, the fans will gradually slow down and eventually stop.
- To **disable this trigger**, press and hold the **Up and Down** buttons simultaneously. The display will show **"OFF"** under the setting.

*Note: This trigger can activate as long as you are in **AUTO Mode**, even while configuring other AUTO triggers.*

Low Temperature / High Humidity / Low Humidity Triggers
These triggers function in the same way as the High Temperature trigger:

- Use the Up or Down button to set the activation threshold.
- When the sensor reading crosses the set threshold, the fans will gradually ramp up to the speed set in ON Mode, then slow down once conditions return to normal.
- To disable a trigger, press and hold the Up and Down buttons simultaneously. The setting will display "OFF".

These triggers can activate at any time while in AUTO Mode, even if you are adjusting other AUTO settings.



High Humidity Alarm
In this mode, use the **Up and Down** buttons to set a high humidity alarm threshold.

- When the sensor detects humidity above your set value, the alarm activates and the fan ramps up to maximum speed, overriding other fan settings.
- To disable this alarm, press and hold the Up and Down buttons simultaneously. The setting will display "OFF".

*Note: This alarm can only activate while the controller is in **AUTO, ON, or TIMER** mode.*

High Temperature / Low Temperature / Low Humidity Alarms
These alarms operate the same way as the High Humidity alarm, using the same setting method and override behavior.

Controller Lock
To prevent accidental changes, **press and hold the LEAF button** for 3 seconds to lock the controller.
While locked:

- You **cannot change settings** or switch modes.
- To unlock, **press and hold the LEAF button** again for 3 seconds.

Temperature Alarm Alert
This icon will flash when either the high or low temperature alarm has been triggered.

Humidity Alarm Alert
This icon will flash when either the high or low humidity alarm has been triggered.