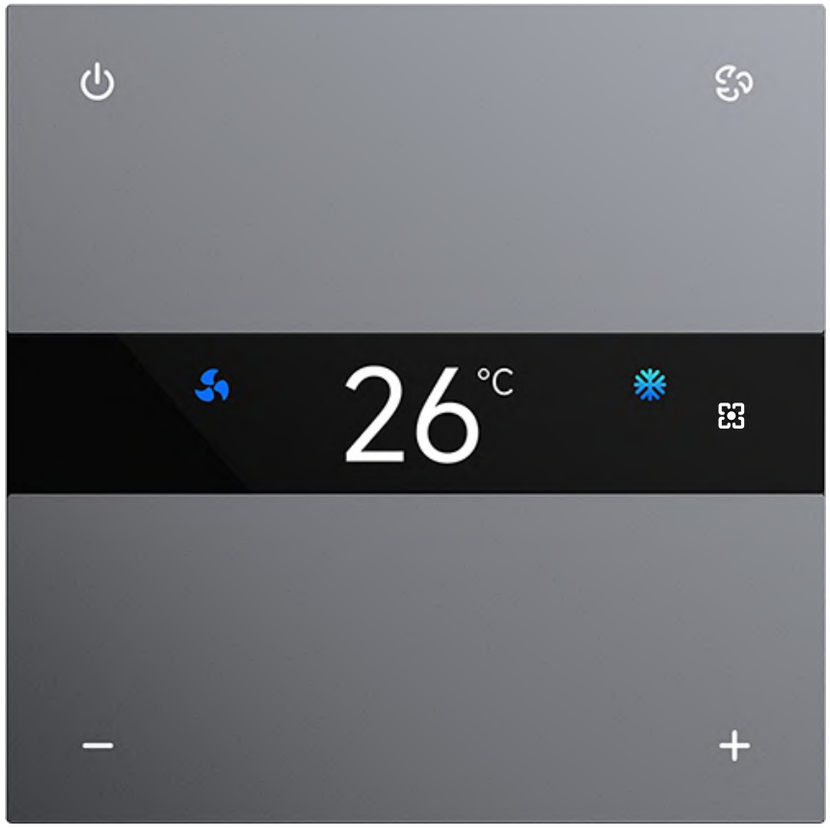
LTECH

Super Smart Thermostat Panel

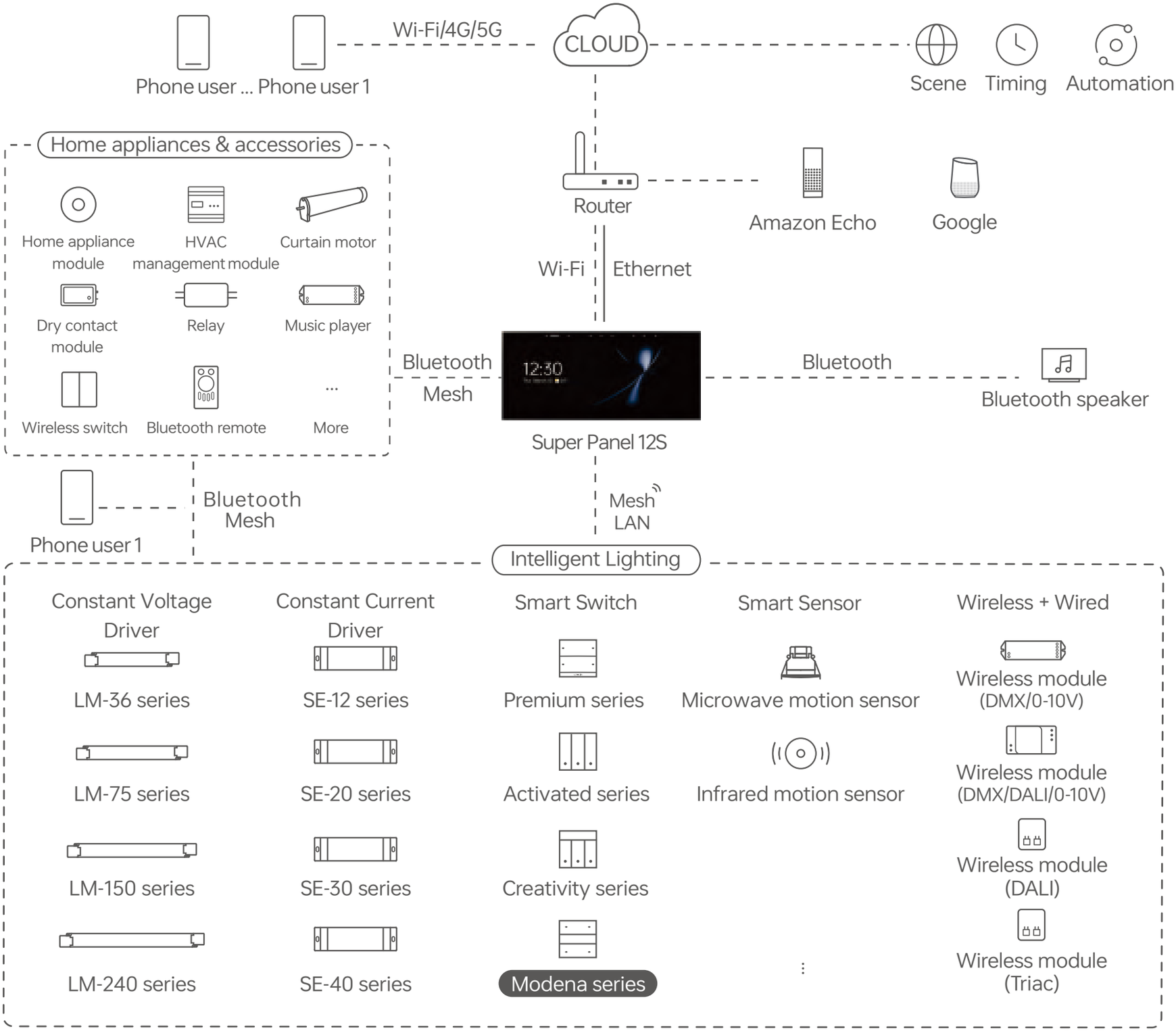
Model: G4 TE



Manual

www.ltech-led.com

System Diagram



Product Introduction

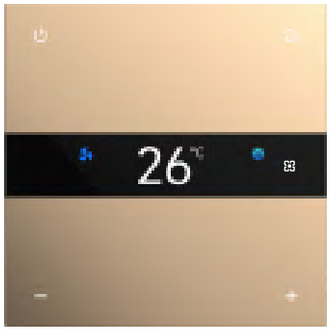
The G4 TE Super Smart Temperature Control Panel integrates air conditioning and fresh air functions, compatible with multiple brands/models. With high-precision CNC aluminum alloy buttons for 24K gold-like luxury, it's designed for one-to-one duct air conditioner setups. Working with our central HVAC module, it enables integrated control for homes/commercial spaces. This product supports remote control via a mobile phone APP, allowing users to easily set the temperature and make adjustments Parameters such as wind speed. Even in the absence of a network connection, the G4 TE can operate independently, ensuring the basic functions used normally, it greatly enhances the convenience of use and the comfort of the environment.

Technical Specs

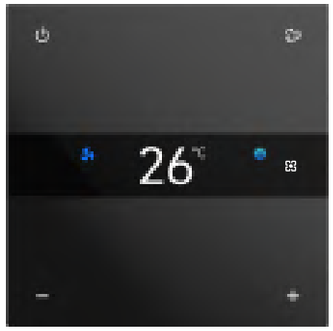
Model	G4 TE
Wireless Type	Bluetooth 5.0 SIG Mesh
Power Method	L/N
Input Voltage	100-240V~，50/60Hz
Standards	GB/T 16915.2-2012
Working Environment	-20°C~55°C，Humidity≤80％RH
Net Weight	180g
Dimensions	86×86×42.5mm (L×W×H)
Colors	Lamborghini Gold/Bugatti Black/Ferrari Red/Pagani White Alfa Romeo Silver/Maserati Gray/24-Karat Gold/Noble Sliver

Bluetooth® CE RoHS

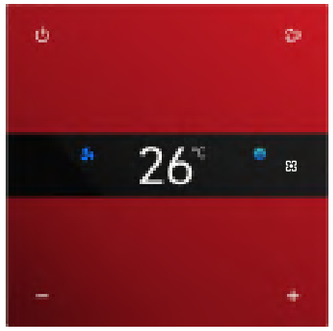
Color Matching



Lamborghini Gold



Bugatti Black

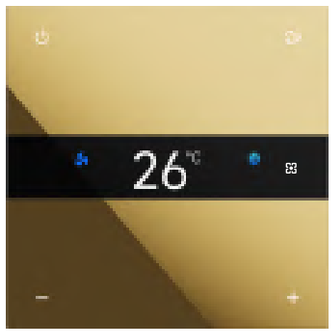


Ferrari Red

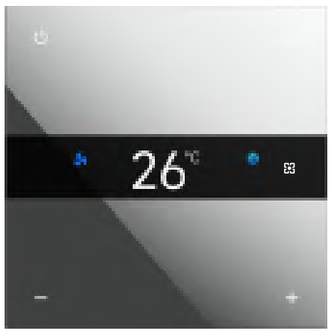
Pagani White

Maserati Gray

Alfa Romeo Silver

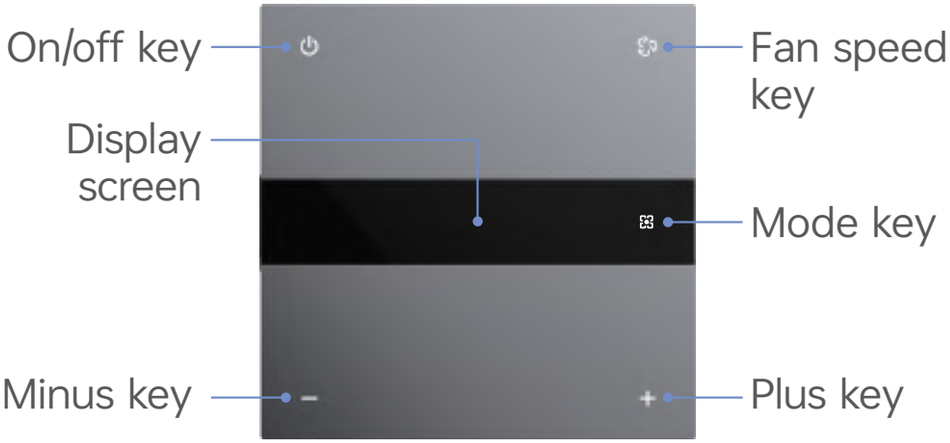


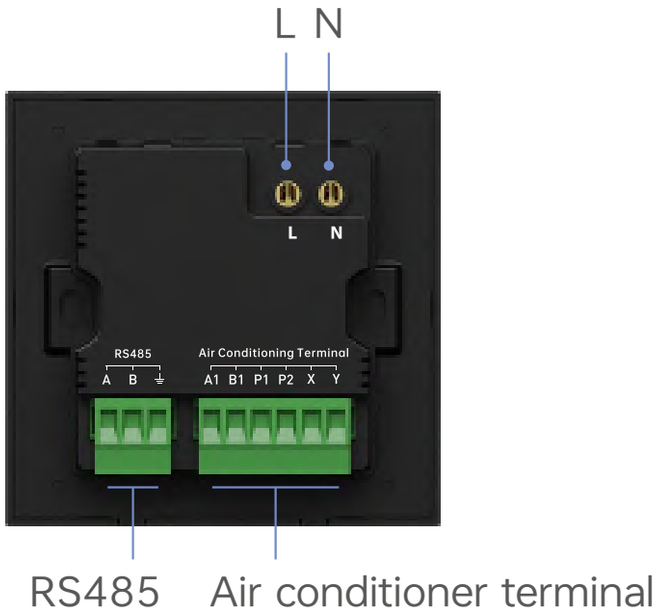
24-Karat Gold



Noble Sliver

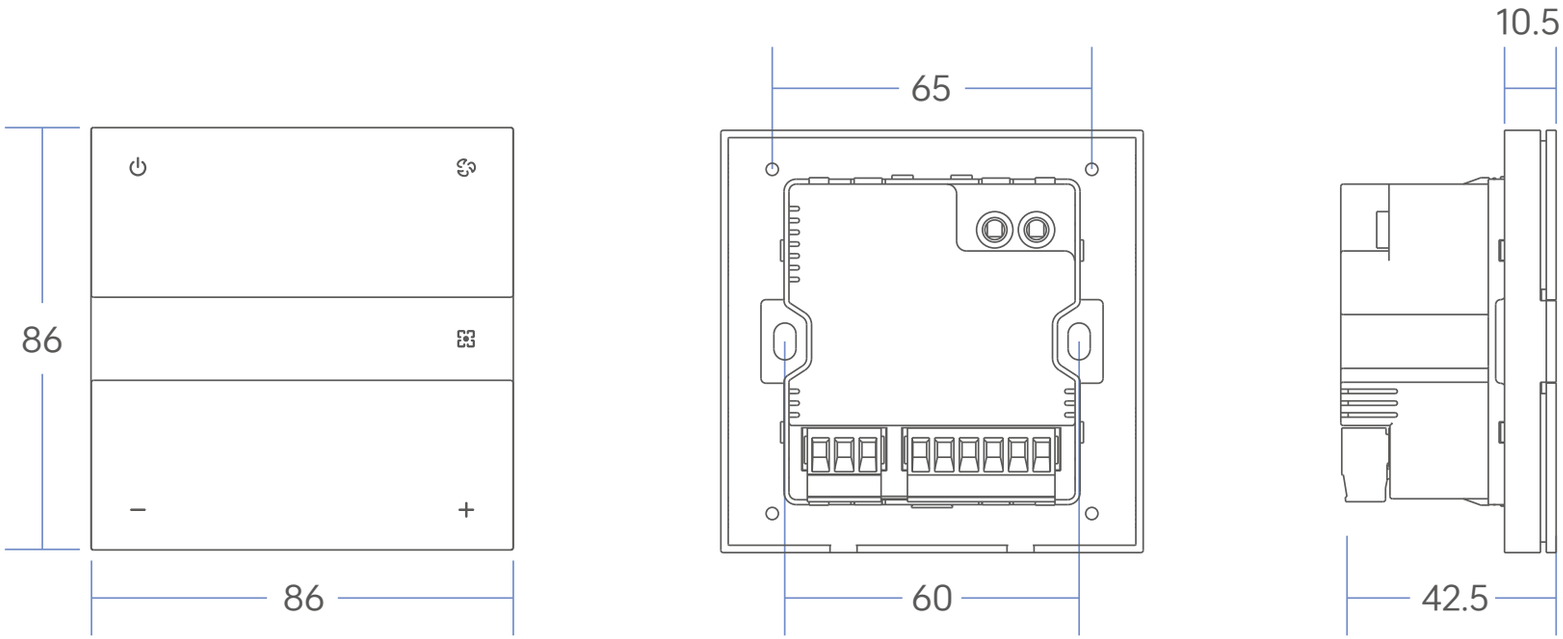
Product Overview





Product Size

Unit: mm



Power Button

⏻ On/off key: Short press power on/off. Factory default: AC + fresh air (short press to toggle). Long press 2s for timer interface; long press again to edit. Short press power key to toggle timer; long press to exit editing.

Fan speed key: Short press to switch fan speed (High/Medium/Low/Automatic). Long press to enter air direction editing interface. Short press the fan speed key to switch air direction (Up/Middle/Down/Swing). Long press the fan speed key again to exit editing.

Mode key: Short press to switch modes (Cooling/Heating/Air Supply/Dehumidification). Factory default: AC - Cooling mode. Long press the Mode key to switch between AC and fresh air (valid only when the temperature control type is AC + fresh air).

− Minus key: Short press to decrease temperature. If in timer editing interface, short press to decrease timer.

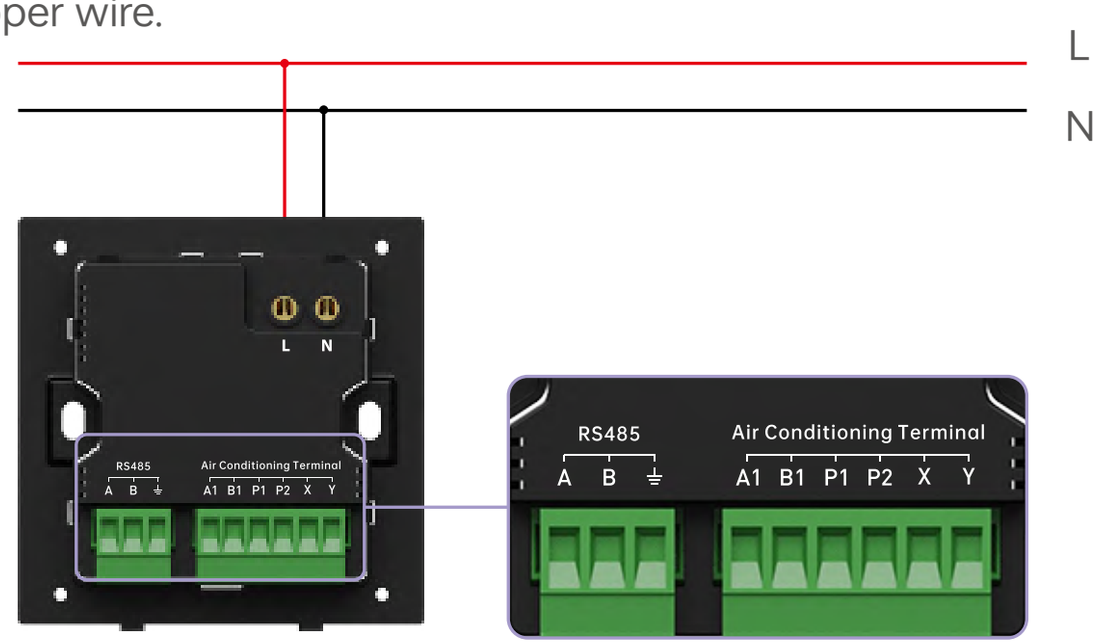
+ Plus key: Short press to increase temperature. If in timer editing interface, short press to increase timer.

✻ Press and hold both the "+" and "-" keys simultaneously for 5 seconds to activate Child Lock mode. The display will show " 🔒 ", locking all settings. Repeat the process to exit.

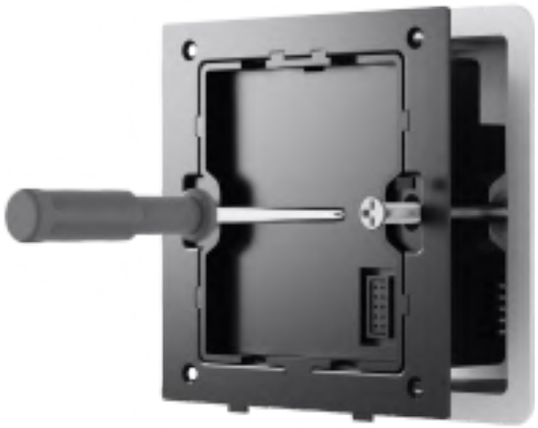
Installation Steps

① Turn off the main power switch and make sure there is no mud or other attachments on the inner wall of the 86 junction box. Reduce the length of the power cord in the junction box to about 10CM and use a flat-blade screwdriver to pry open the bottom box of the smart thermostat panel.

② Connect the live wire to the L port of the smart thermostat panel, the neutral wire to the N port. Make sure that the power wire is in good contact with the switch terminal and there is no exposed copper wire.



③ First, fix the bottom box to the wall box with screws, and then align the panel with the buckle and fasten it onto the bottom box, so that the bottom box fits the wall.



Fixed wall cassette

The panel is fastened onto the bottom box

④ Align the panel with the buckles and snap it onto the bottom box. After removing the disposable keypad, install the corresponding metal keypad, and turn on the main power switch. Press the smart thermostat panel button and the device can be controlled normally, indicating that the installation is correct.

Note: It is recommended to disassemble and assemble the keypad after the decoration is completed.

Remove the disposable keypad

Find the corresponding metal keypad

Close the metal keypad

Wiring Steps

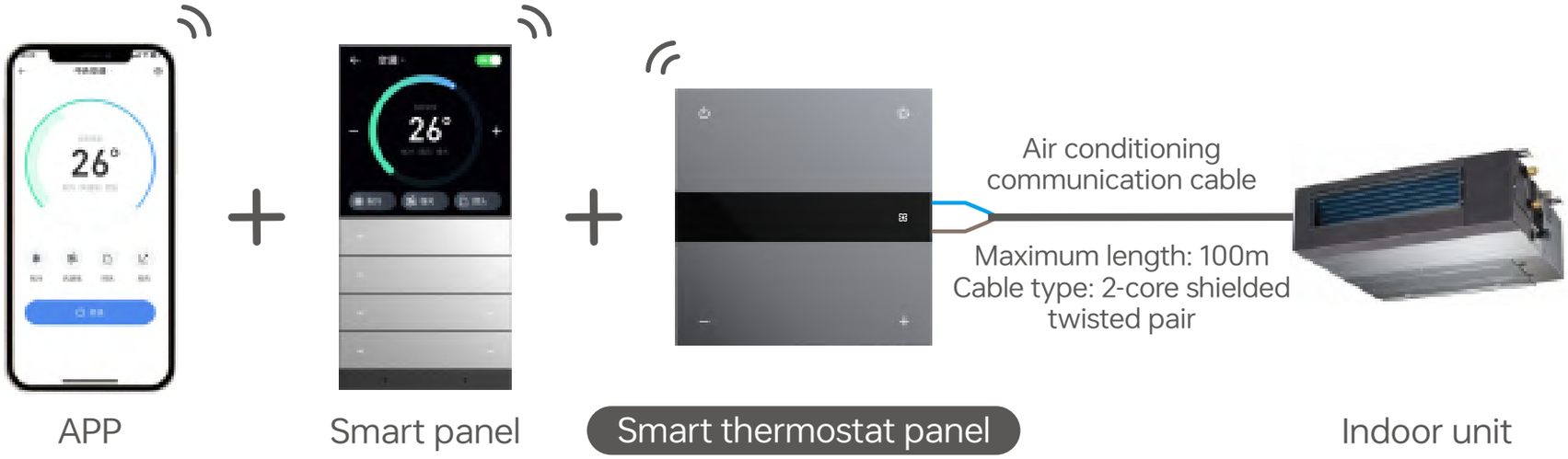
一、Preparatory work

1. Ensure the air conditioning system is powered on, and check that all indoor and outdoor units connected to the centralized control are fully powered.
2. Confirm the air conditioning system has been successfully debugged and operated by the manufacturer, with no alarms or abnormalities.
3. Disconnect the power supply to all devices in the air conditioning system.
4. Connect the air conditioning communication cables to the corresponding interfaces as instructed (for details, refer to Manual P4).
5. Determine the port selection and communication parameter matching for the smart temperature control panel.
6. Power on the system devices and wait for the system to be ready for use.

Note: The product is initially set to Hitachi air conditioners by default. To select other brands, use the applet to switch or upgrade.

二. When paired with a one-to-one duct machine

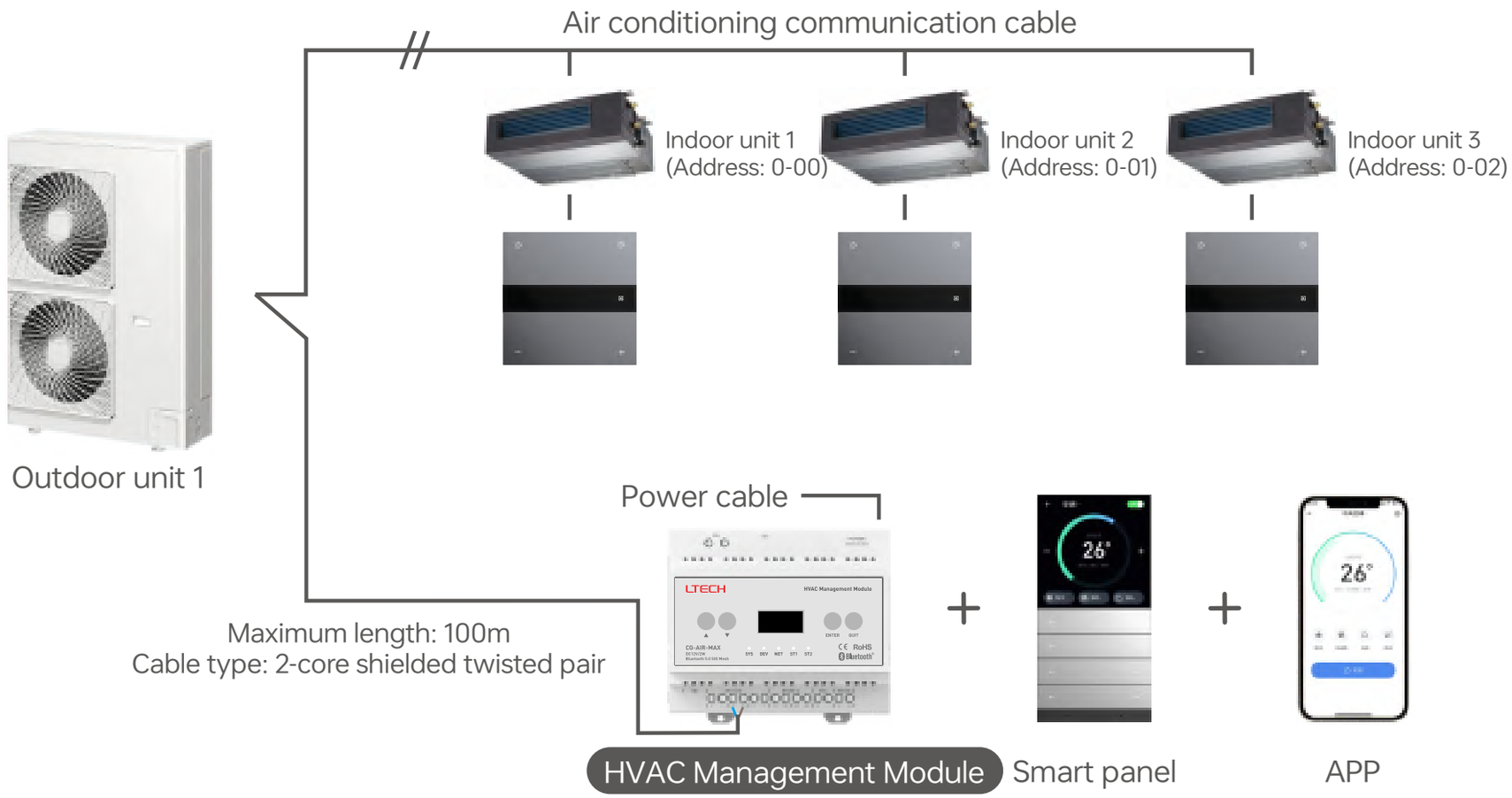
The TE panel replaces the original factory thermostat and enables remote control via an APP.



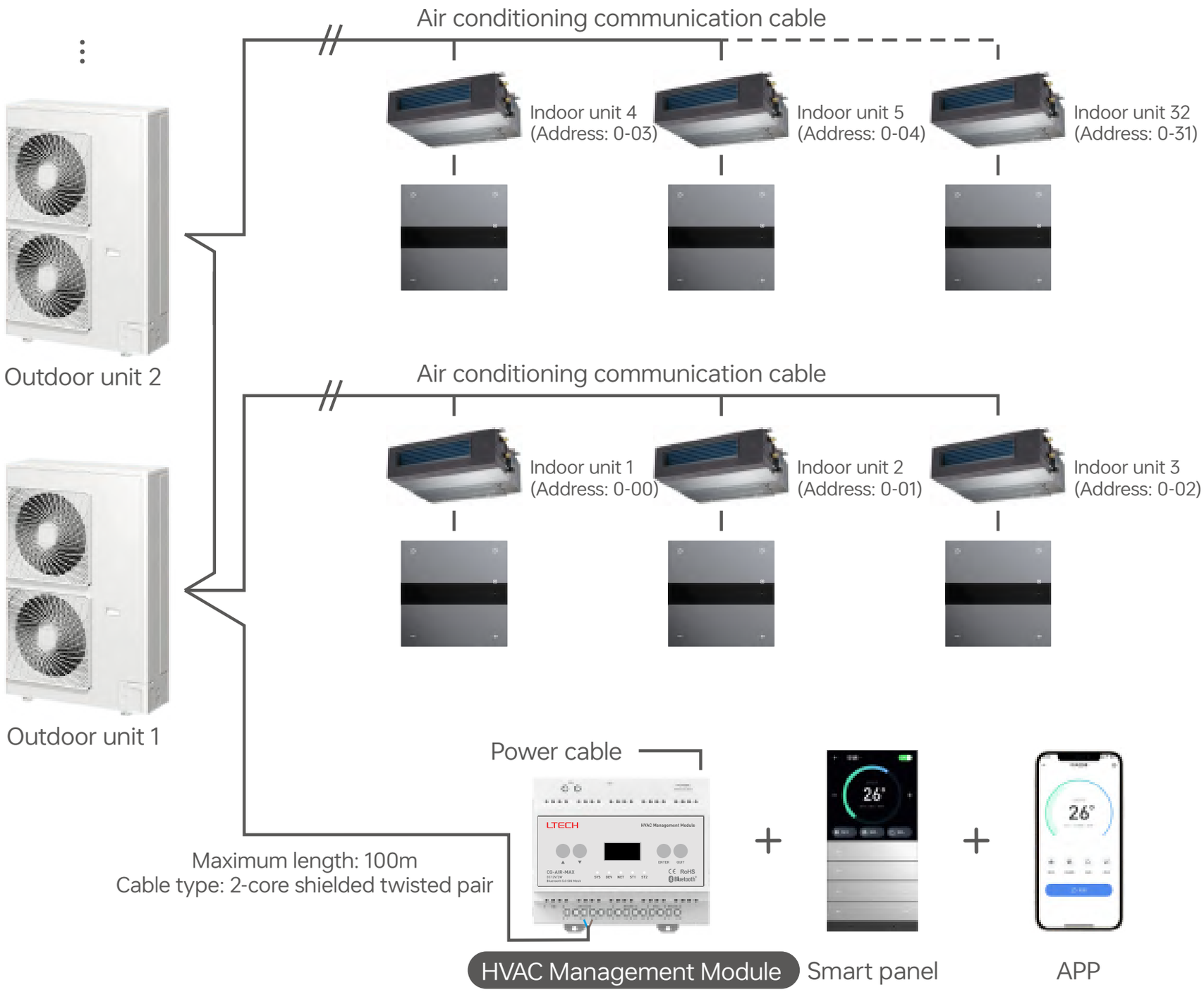
三. For central air conditioning and HVAC systems

The G4 TE panel can replace the original factory thermostat. When paired with the central air conditioning HVAC module (CG-AIR-MAX), it enables remote control via the APP or precise control of individual indoor units through the G4 TE panel. Combining the G4 TE panel with the central air conditioning HVAC module meets the need for centralized control of indoor units.

(1) Single-unit connection



(2) Multi-unit connection



Supported Brands and Instructions

Brands	Wiring method		Wiring polarity	Cable	Coexistence with the original factory wire controller
	Module-side pin	AC-side wiring port			
Daikin-Multi outdoor AC units	P1, P2	P1, P2	No	2-core	Support
HITACHI-Multi outdoor AC units	P1, P2	A, B	No	2-core	Support
HITACHI-Single outdoor AC units	P1, P2	A, B	No	2-core	Support
Hisense-Multi outdoor AC units	P1, P2	A, B	No	2-core	Support
YORK-Multi outdoor AC units	P1, P2	A, B	No	2-core	Support
GREE-Multi outdoor AC units	P1, P2	H1, H2(Panel model XC70, Xc71 ect)	No	2-core	Support

Customers must coordinate with the manufacturer to provide the corresponding communication protocol for our company's confirmation and development before purchasing the fresh air products.

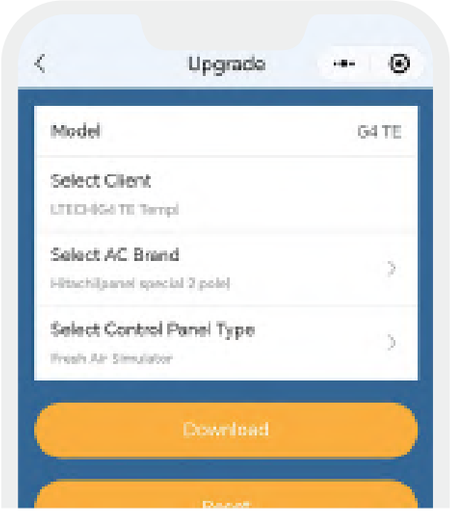
Notes for Wiring Operations

1. The wiring terminals of input terminals vary with different control methods.
2. Power off both this product and the air conditioner before performing wiring operations.
3. Do not route all signal cables alongside power cables or other signal cables, as this may cause malfunctions due to interference.
- If routing alongside is necessary, maintain a distance of at least 15 cm from air conditioning communication cables and at least 30 cm from other cables; alternatively, route the cables through a steel protective tube and ground one end of the tube.
- The chassis must be grounded according to Type D grounding requirements.
4. If the power cable is incorrectly connected to the signal terminal, the fuse will blow to protect the printed circuit board. In such cases, contact the manufacturer immediately. Unauthorized disassembly or repair is strictly prohibited.

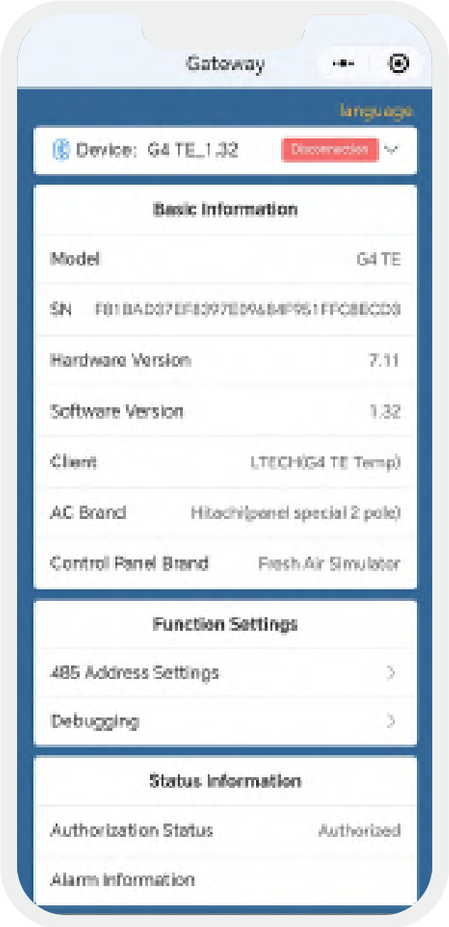
Selection of air-conditioner/fresh-air brands

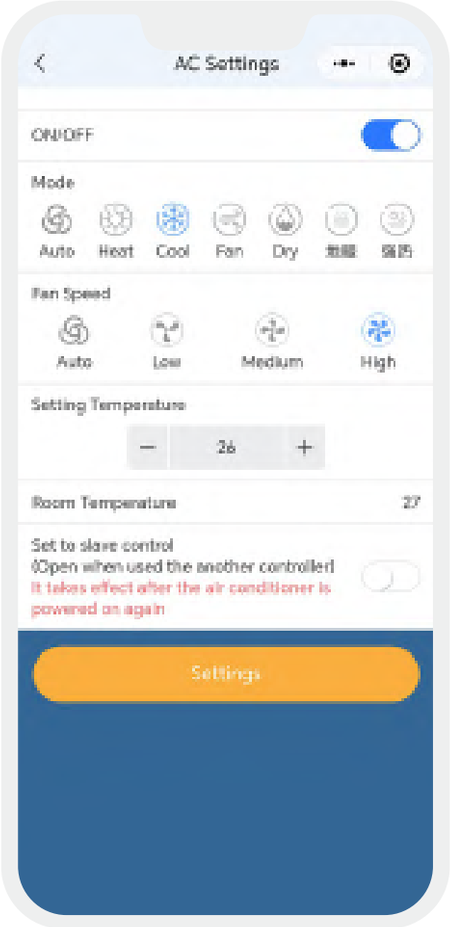
1. Power on the smart thermostat panel, Use the WeChat app to scan the QR code to enter the mini - program.

2. Ensure your phone's Bluetooth is turned on. Tap "Unconnected Device" and wait for the search to complete. Locate and connect to the device starting with "G4 TE". Navigate to the [Switch] page and select the corresponding air conditioner/fresh air brand based on your actual application. After selecting "Retrofit AC/Fresh Air Dual-Mode" for "Panel Type", tap "Confirm Brand Switch". The interface will prompt "Switch Successful" upon completion.
If your brand is not listed, please contact customer support.



3. Switch to the [Gateway] page to view parameter information of the air conditioner/fresh air system.
Switch to the [Air Conditioner] page to debug parameters such as device on/off status, temperature, and wind speed. After setting parameters, click the "Settings" button at the bottom to make them take effect. The following diagram uses an air conditioner as an example.





4. When the device operates abnormally, a 2-digit fault code will be displayed on the panel display. In this case, you need to provide the fault code to the air conditioner/fresh air manufacturer for handling. After the device fault is resolved, normal operation can be resumed.

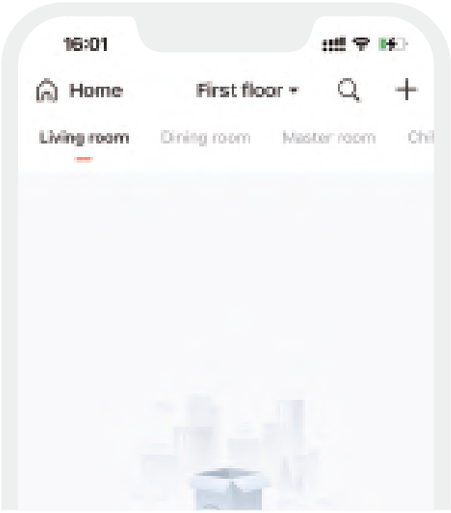
App Operating Instructions

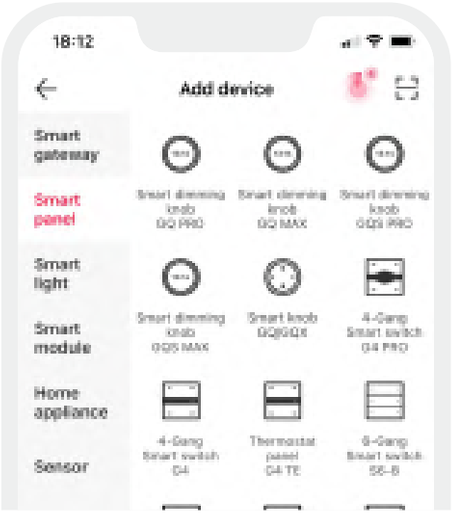
1. Register an account

Scan the QR code below with you mobile phone and follow the prompts to complete the app installation.

2. Configure

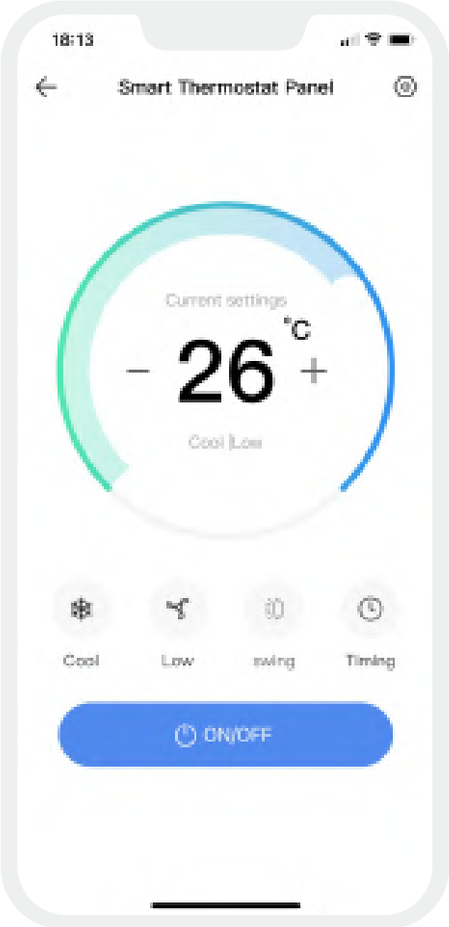
After a new user creates a family on the APP, click "+" in the upper right corner of the [Room] interface to add a device. Select "Smart Thermostat Panel" in the list of added devices and follow the on-screen prompts to complete the addition.

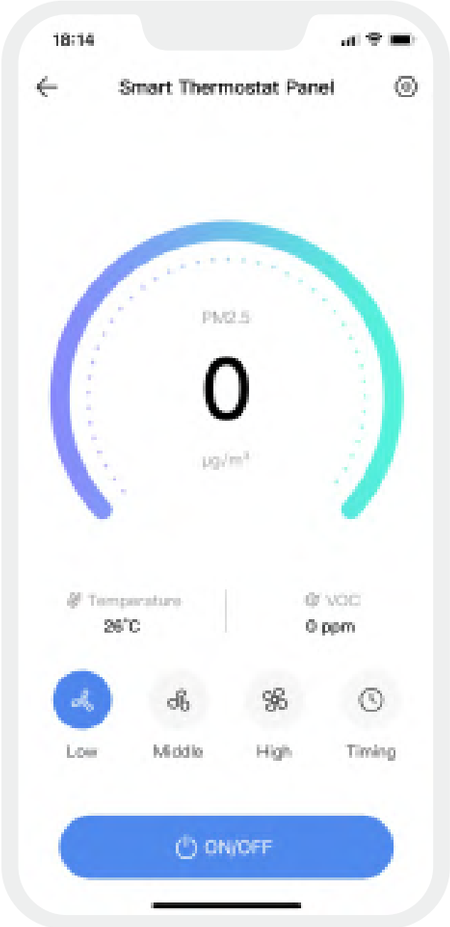




3. Control interface

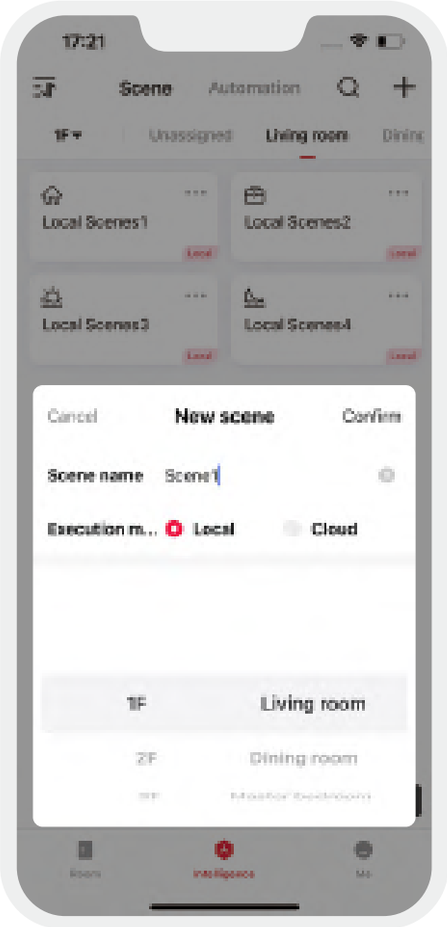
Click the [...] button in the upper-right corner of the added air conditioner/fresh air/ air conditioner+fresh air to enter the device control interface, where you can adjust temperature, wind speed, turn the device on/off, etc. Click the [⬡] icon in the upper-right corner to change panel language, smart wake-up distance, night mode, etc.

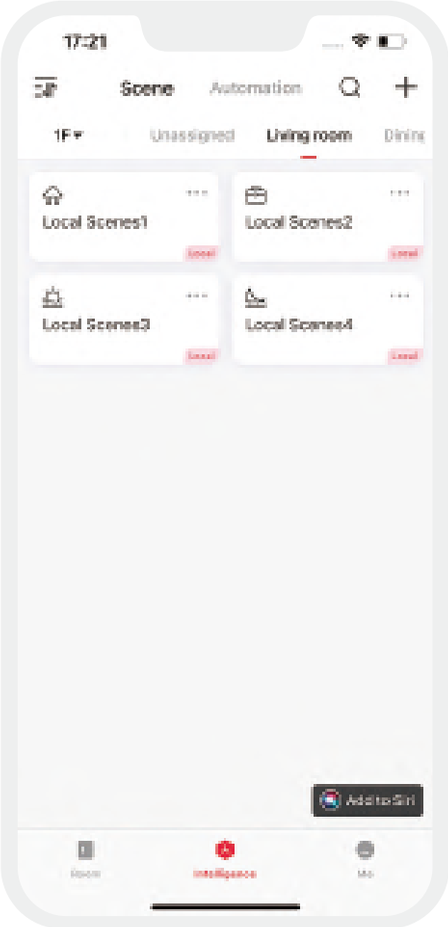




4. Local scene

Switch to the [Smart] interface, click the "+" in the upper right corner to create a local scene, and after setting the execution actions, you can achieve local linkage of Bluetooth devices.



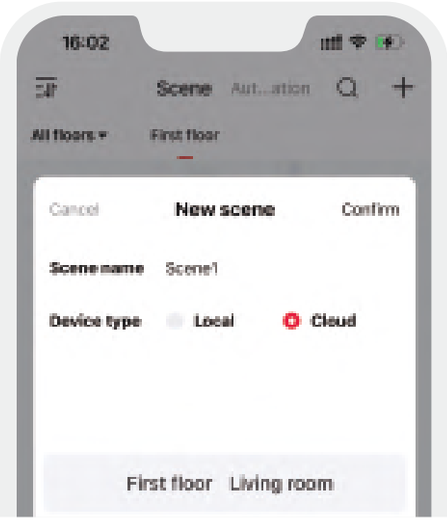


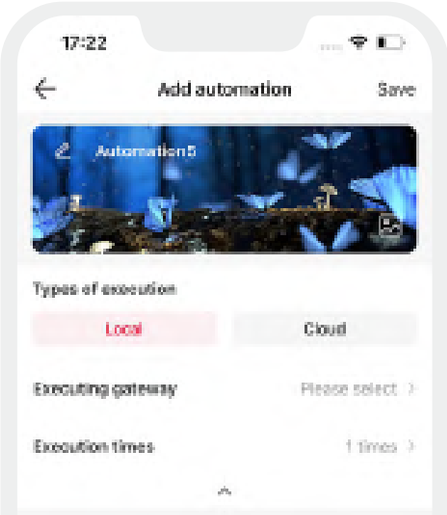
5. Cloud Scenarios and Automation

Ensure that a smart gateway, such as the Super Panel 6S, has been added to the home.

Cloud Scenarios:
Switch to the [Smart] interface and click "+" to create a cloud scenario. After setting up execution actions, remote linkage can be achieved.

Automation:
In the [Smart] interface, select "Automation" and click "+" to create an automation. You can choose the execution mode (local/cloud), set trigger conditions, and define execution actions. When the configured trigger conditions are met, a series of device actions will be automatically triggered to achieve remote linkage.





Factory Reset

Method 1

1. Long-press the "+" button for 15 seconds (as shown in Figure 1) until all button indicators flash rapidly.
2. Meanwhile, the screen will display "Disconnect from the network and press the + button 3 times within 3 seconds." Press the same button 3 times within 3 seconds.
3. The indicators will flash slowly. After the device restores to factory settings, the indicators will flash rapidly for 3 seconds, and the screen will show "Network disconnection successful."

Method 2

1. First, ensure the device is properly powered on and online.
2. Open the L-Home APP, locate the device, and enter its settings page.
3. Click the "Delete Device" button (as shown in Figure 2).
4. When the interface prompts "Deletion successful," it indicates the device has been successfully restored to factory settings.

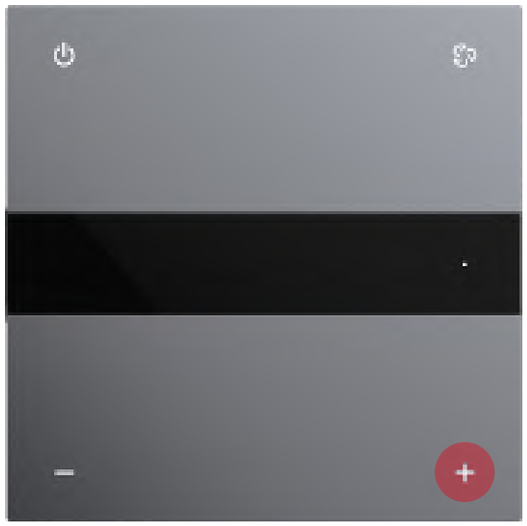


Figure 1

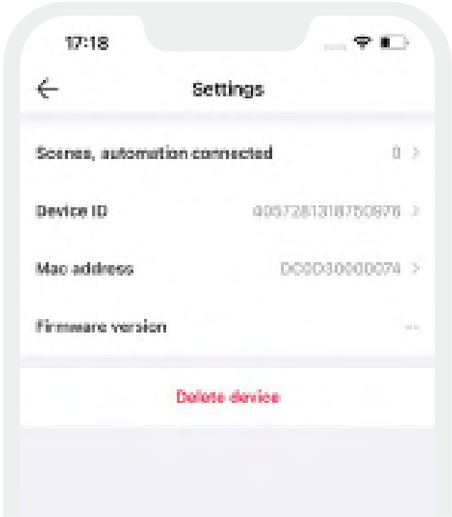


Figure 2

FAQs

1. What should I do if the device cannot be found during searching?
Check the following:
- Ensure the device is properly powered and in pairing mode.
- Keep the phone and device as close as possible, preferably within 15 meters.
- Ensure the device has not been added before. If it has been added, manually restore it to factory settings.

2. What should I do if the panel switch is unresponsive to touch?
Do not operate the panel while it is powered. If a metal key panel has been installed, power cycle the panel to initialize the touch data, which should restore normal functionality.

Attentions

- Products shall be installed by qualified professionals.
- LTECH products are non-waterproof and not lightningproof (special models excepted). Please avoid the sun and rain. When installed outdoors, please ensure they are mounted in a water proof enclosure or in an area equipped with lightning protection devices.
- Good heat dissipation will extend the working life of products. Please ensure good ventilation.
- Please check if the working voltage used complies with the parameter requirements of products.
- The diameter of wire used must be able to load the light fixtures you connect and ensure the firm wiring.
- Before you power on products, please make sure all the wiring is correct in case of incorrect connection that causes damage to light fixtures.
- If a fault occurs, please do not attempt to fix products by yourself. If you have any question, please contact your suppliers.

Warranty Agreement

Warranty periods from the date of delivery : 2 years.
Free repair or replacement services for quality problems are provided within warranty periods.
Warranty exclusions below:

- Beyond warranty periods.
- Any artificial damage caused by high voltage, overload, or improper operations.
- Products with severe physical damage.
- Damage caused by natural disasters and force majeure.
- Warranty labels and barcodes have been damaged.
- No any contract signed by LTECH.

1. Repair or replacement provided is the only remedy for customers. LTECH is not liable for any incidental or consequential damage unless it is within the law.
2. LTECH has the right to amend or adjust the terms of this warranty, and release in written form shall prevail.

✳ This manual is subject to changes without further notice. Product functions depend on the goods. Please feel free to contact our official distributors if you have any question.