

INSTALLATION MANUAL

LUNA BEDSIDE TOUCH PANEL

Model: LUNA-BEDSIDE

TIS

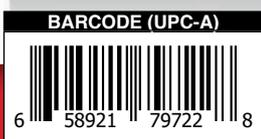
Automation Made Easy



i PRODUCT INFORMATION

With our Luna Bedside Panel, controlling the temperature, fan speed, lights, curtains, and moods in your bedroom is very simple. This panel is customized as per hotel, hospital, or other project needs.

PRODUCT SPECIFICATIONS			
	OLED	Size	0.9"
	Touch	Active area Touch Type	4.3" Capacitive
	Input	Temp sensor IR receiver Using Panel Addition	Resistive Temp Sensor TIS Infrared code receiver 2-3 Digital Input
	Output	Using Panel Addition 3R Using Panel Addition 3DL-12V Using Panel Addition 2DL-IRE	3 Relay Output 3A/5A 12V DC 50mA Output IR Emitter
	TIS Bus	Number of devices on 1 line Bus voltage Current consumption	Max. 64 12-32 V DC <45 mA / 24 V DC
	Operating and display elements	touch buttons Backlight TIS bus Upgrading	12 touch buttons for AC / lights / moods ... 12 RGB indicators TIS Protocol messages and commands By Rs485 upgrading kit.
	Functions	1 Press Long Press Double click IR receiver	ON / OFF / Scene / AC control Dim or ramp the lights Extra Scene Music, scene, lights control
	Dimensions	Width x length x height	129mm x 13mm x 90mm (94mm peak)
	Housing	Materials Casing color Internal Parts color IP rating	PC fire proof / Glass in front Silver plating frame, Black Glass Black & White IP 50





Read Instructions

We recommend that you read this Instruction Manual before installation.



Data Cable

Use screened stranded RS485 data cable with four twisted pairs. Configure devices in a "Daisy Chain."

Do not cut or terminate live data cables.



Safety instructions

Electrical equipment should only be installed and fitted by electrically skilled persons.

Failure to follow the instructions may cause damage to the device and other hazards.

These instructions are an integral part of the product and must remain with the end customer.



Electrical Wires

The recommended wire size for light channels is 1.5mm - 2.5mm for loads, if you are using the Panel Addition 3R type. The installer should consider the total current consumption when selecting the wires.



Programming

This device can be tested and programmed manually. Advanced programming requires knowledge of the TIS Device Search software and instruction in the TIS advanced training courses.



Warranty

There is a two-year warranty provided by law. The hologram warranty seal and product serial number are available on each device.



Simple Installation

You can use 2 screws to install this panel on wall; it fits on most junction box sizes.



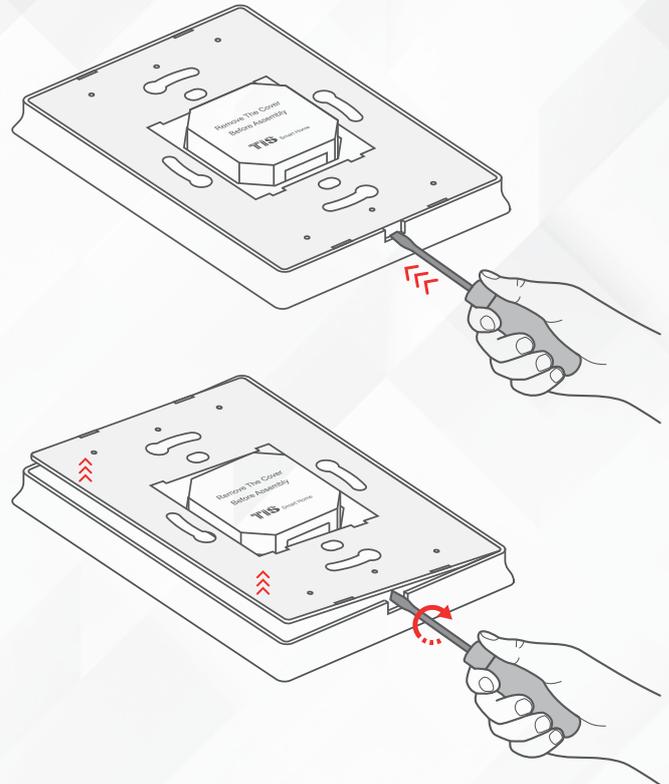
Mounting Location

Install in a dry, indoor area. with a suitable temperature and humidity range.

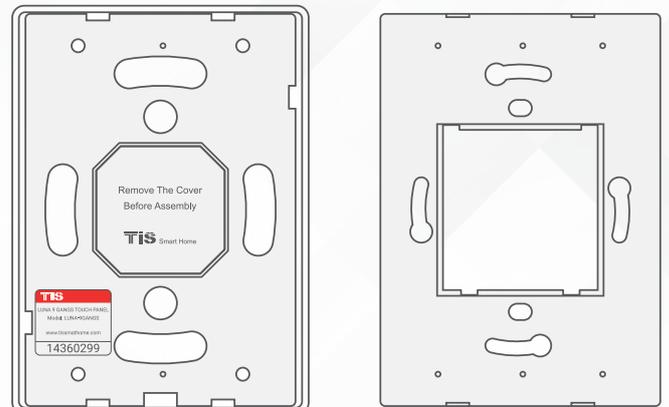


INSTALLATION STEPS

1 Insert a large flathead screwdriver in the hole of the Panel Cover. Rotate the screwdriver 90 degrees.

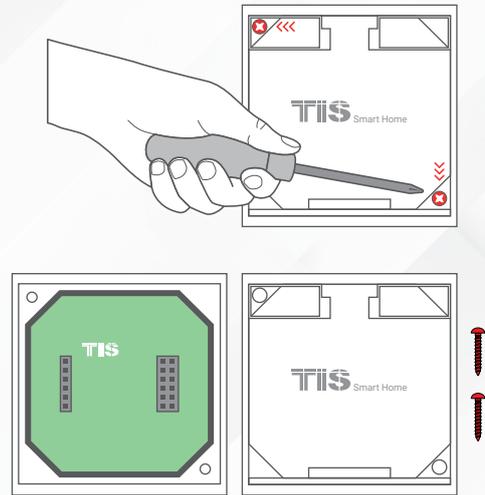


2 Separate the Cover, Main Panel, and Wall Base from each other.

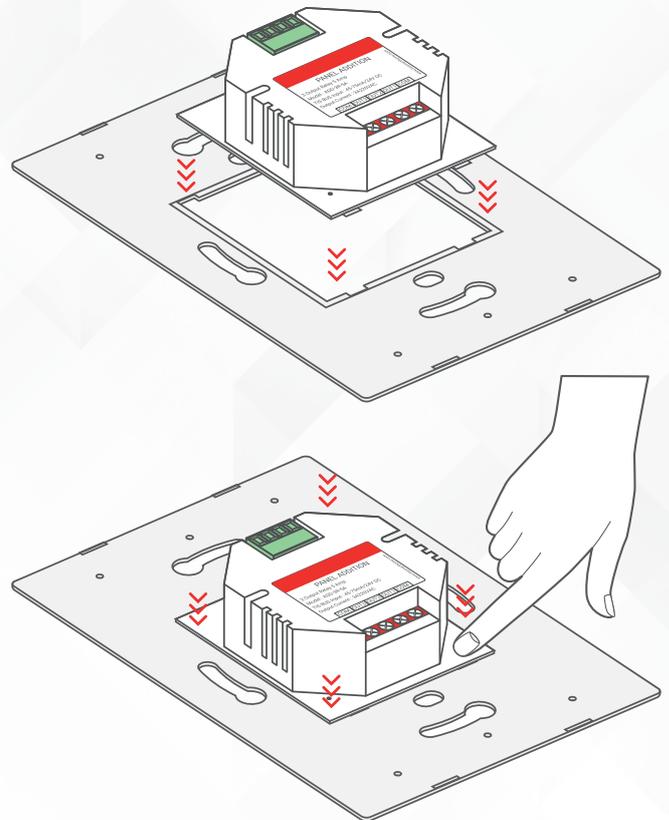


INSTALLATION STEPS

3 » Remove the 2 screws on the Panel Addition cover.

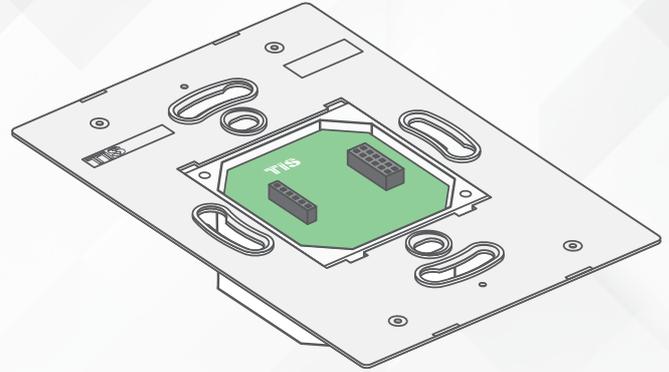


4 » Connect the Wall Base and Panel Addition in this position. Place the upper pins as shown, and then push the down pins down with your fingers to assemble.



INSTALLATION STEPS

It should look like this following the correct assembly.



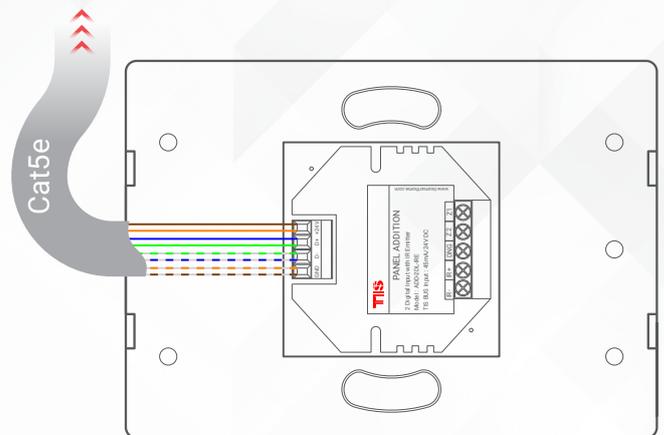
5 >> Turn off the main electrical source before installation.



WARNING! HIGH VOLTAGE

6 >> Connect the Cat5e TIS BUS wire to the Panel Addition.

to the TIS BUS Network



INSTALLATION STEPS

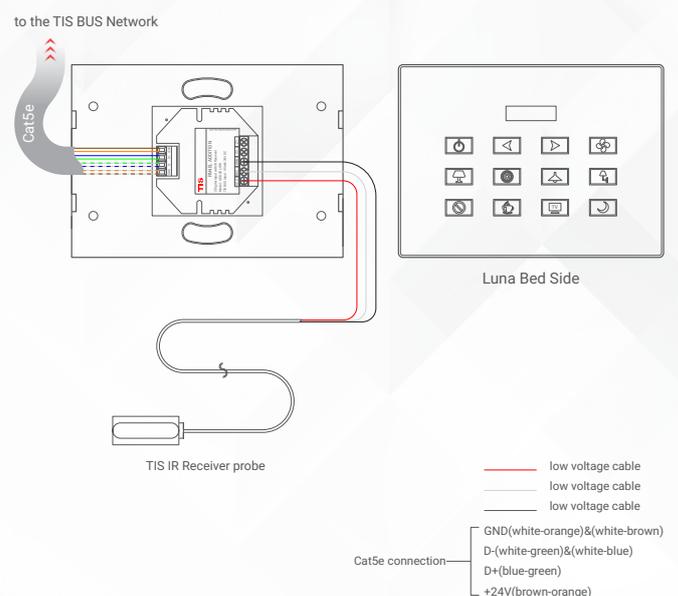
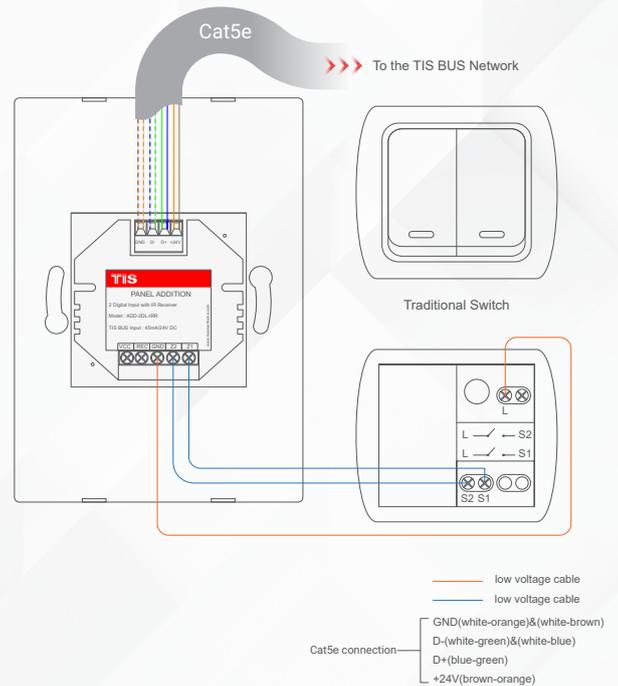
7» Connect the other connection if needed as per the panel addition type.

» **FOR PANEL ADDITION 2DL-IRR**

You can connect 2 digital inputs to any switch or window magnet.

» You can add an External Infrared Receiver to the IRR Port, connect as follows:

- ▶ the IR Receiver black wire to GND
- ▶ Gray wire to REC
- ▶ Red wire to VCC Terminal.

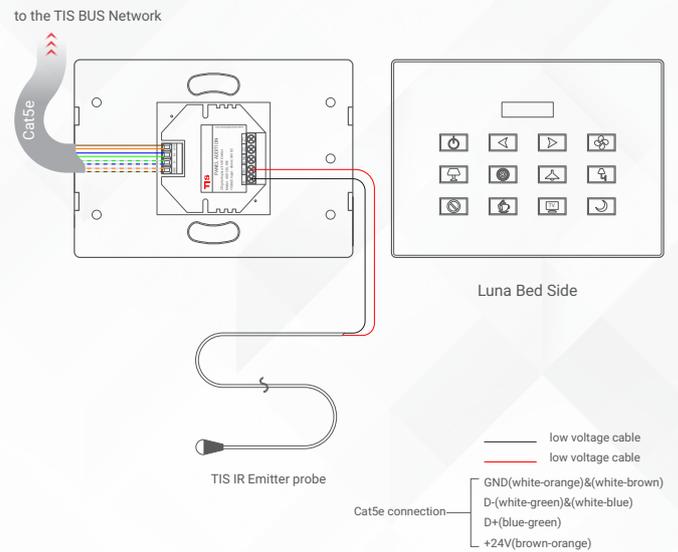
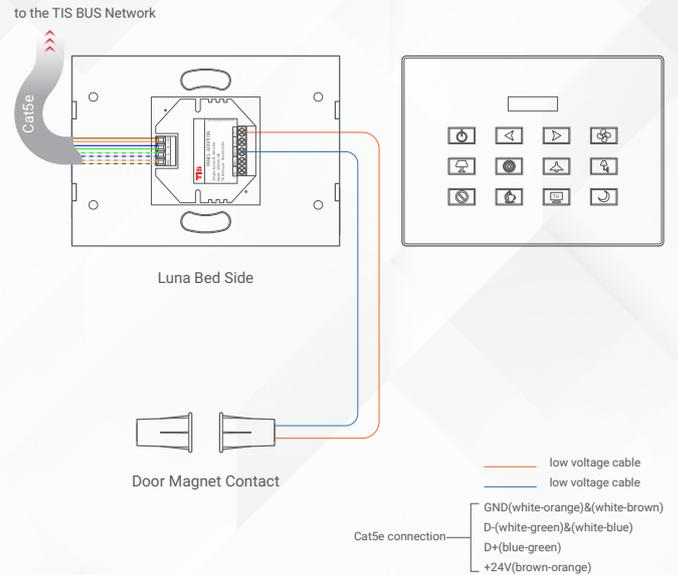


INSTALLATION STEPS

» FOR PANEL ADDITION 2DL-IRE

You can connect 2 digital inputs to any switch or window magnet.

- ▶ Connect the IR Emitter Probe's positive wire to IR+ terminal.
- ▶ Connect the negative wire to IR-terminal.

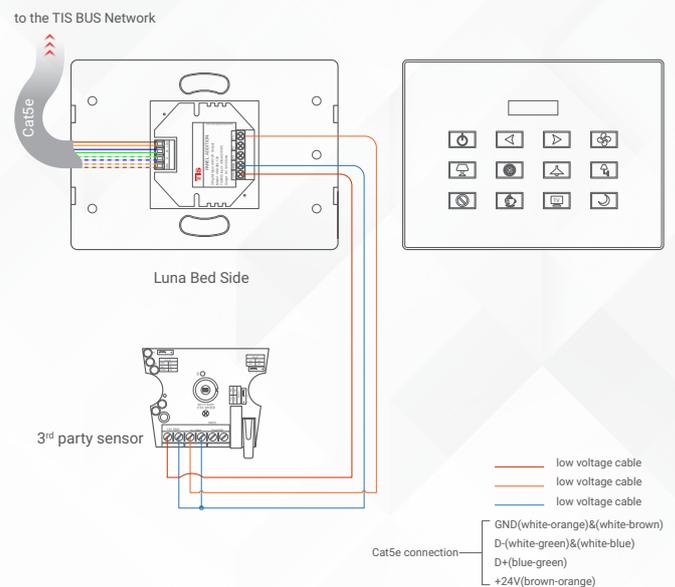
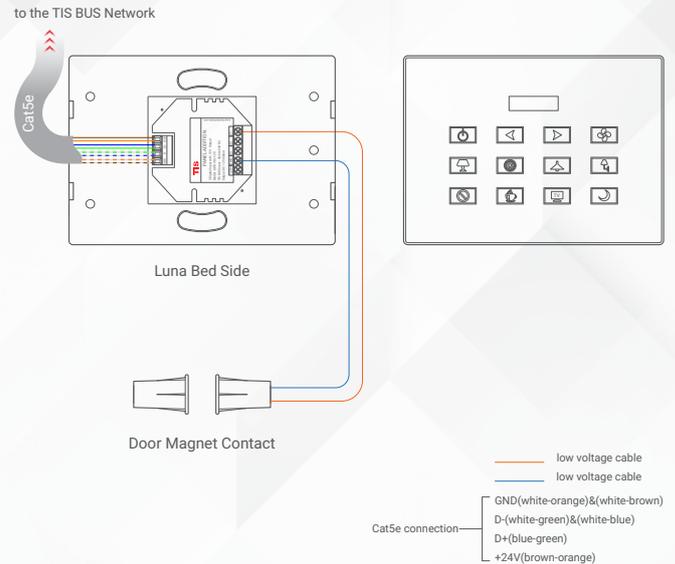


INSTALLATION STEPS

» FOR PANEL ADDITION 3DL-12V

You can connect 3 digital inputs to any switch or window magnet.

» Also, you can connect any 12V operated smoke detector or any 3rd party sensor with NC/NO connection to the 12V GND and Z1-Z3 terminals as per the diagram.

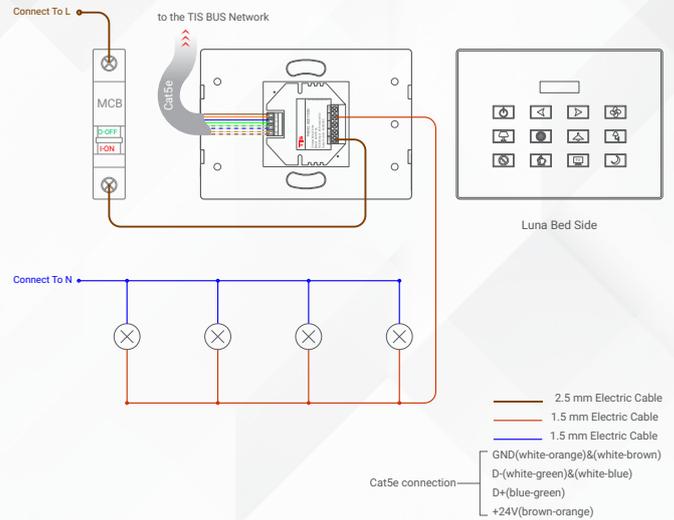


INSTALLATION STEPS

FOR PANEL ADDITION 3R-5A

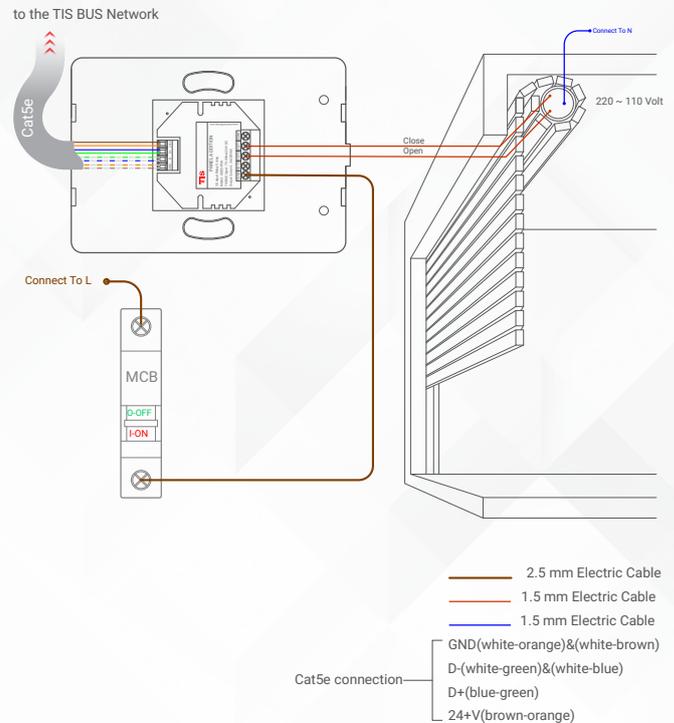
LIGHTING CONNECTION

- ▶ Connect the live wire to COM
- ▶ Connect the loads wire to Out1-Out3 to terminals
- ▶ Connect load neutral wire to main neutral in the distributor box.



SHUTTER / CURTAIN CONNECTION

- ▶ Connect the Supply wire to COM
- ▶ Connect the Open wire to OUT1
- ▶ Connect the Close wire to OUT2
- ▶ Shutter neutral connection, if it exists, can be looped to main neutral in the distributor box.



WARNING: Set the curtain function in the software before connecting the wires.

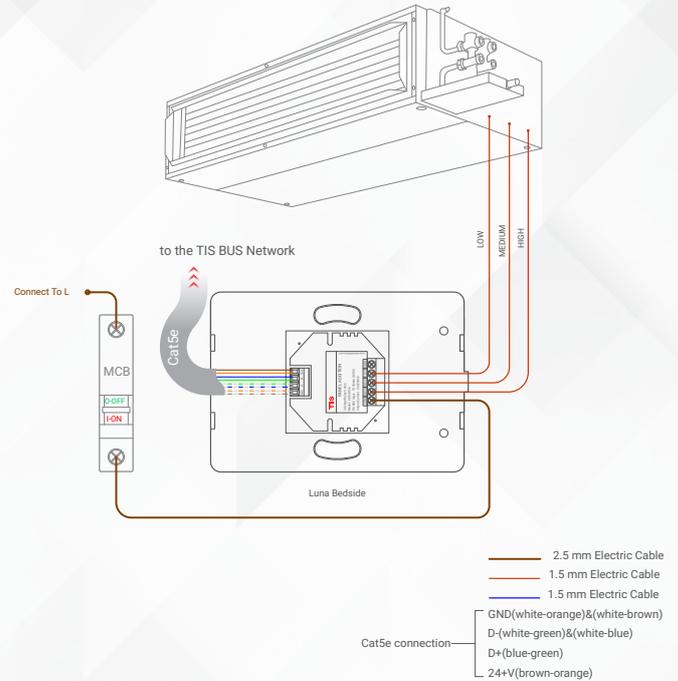
INSTALLATION STEPS

» FOR PANEL ADDITION 3R-5A

FCU CONNECTION

- ▶ Connect the supply wire to com
- ▶ Connect the FAN Low, Medium, and High wires to Out1, Out2, and Out3 in the same order.

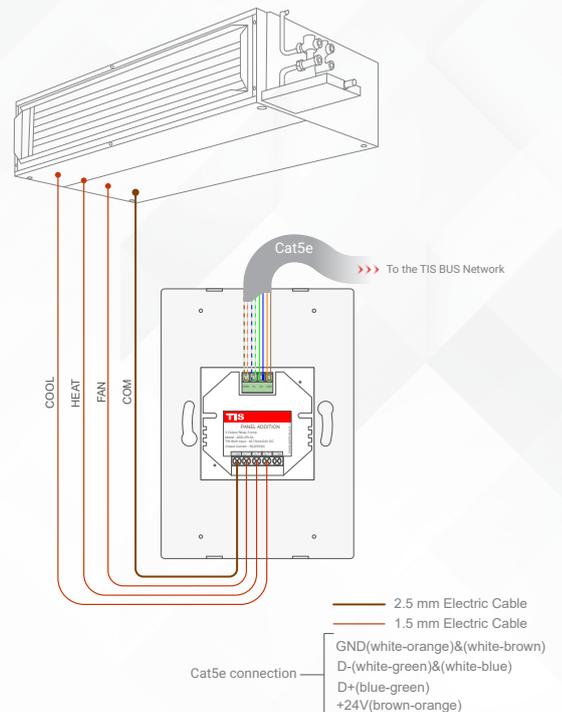
WARNING: Set the FCU function in the software before connecting the wires.



HVAC CONNECTION

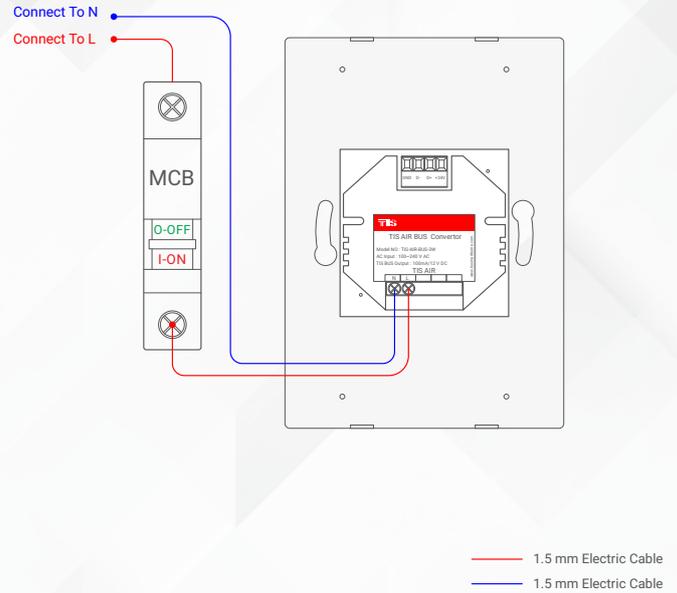
- ▶ Connect the HVAC COM (supply) wire to COM
- ▶ Connect the Cool, Heat, and FAN wires to Out1, Out2, and Out3 in the same order.

WARNING: Set the HVAC function in the software before connecting the wires.

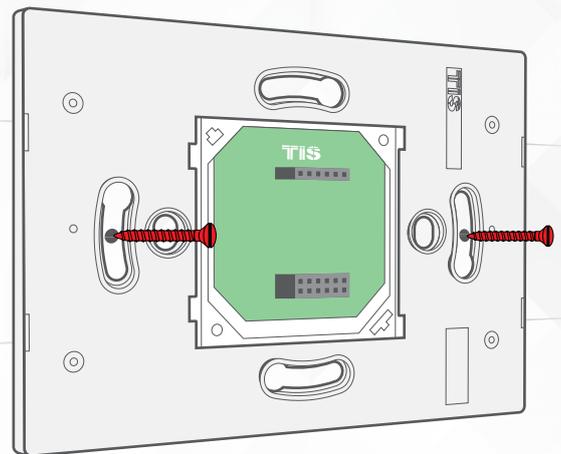


INSTALLATION STEPS

- 7 >> FOR PANEL ADDITION AIR-BUS-3W**
- ▶ Connect the live wire to the L terminal,
 - ▶ Connect the neutral wire to N terminal.

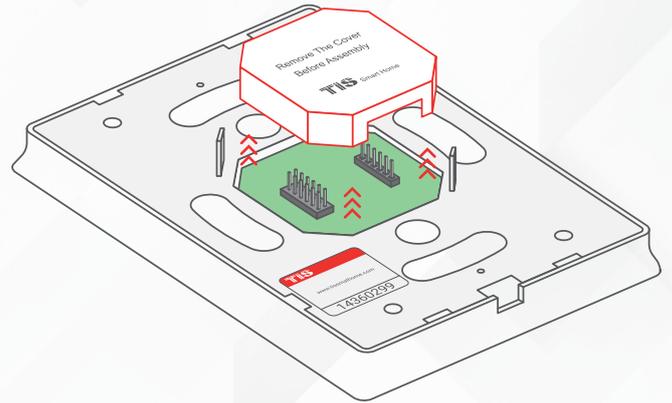


- 8 >>** Mount the device on the wall using 2 screws on the junction box.

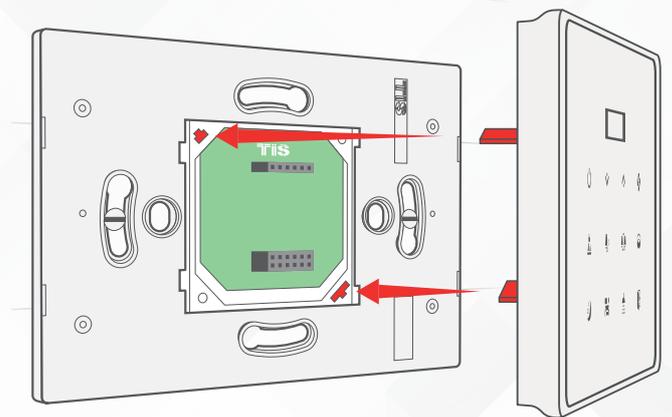


INSTALLATION STEPS

9 » Using your fingers, pull the protective plastic cover vertically, remove it, and throw it away.

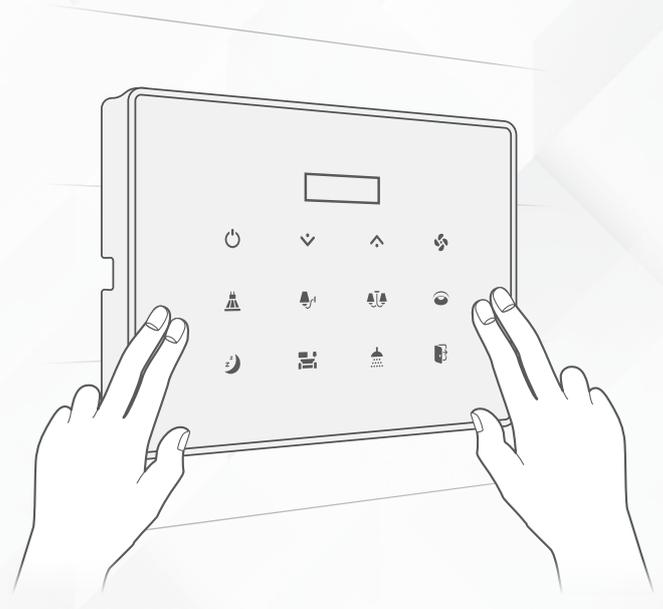


10 » Connect the main Luna panel vertically to the part installed on the wall; install the upper part by making sure the buckles are completely inside.



INSTALLATION STEPS

11 » Push on the bottom part of the main panel to fix it to the wall and complete the assembly.



12 » Turn on the power source. The panel should turn ON.

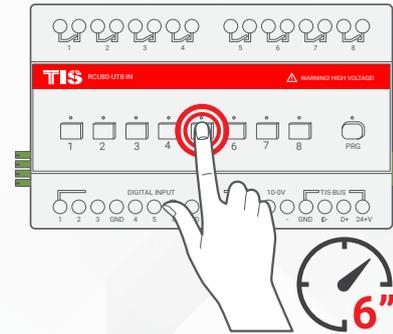


PAIRING (MANUAL PROGRAMMING)

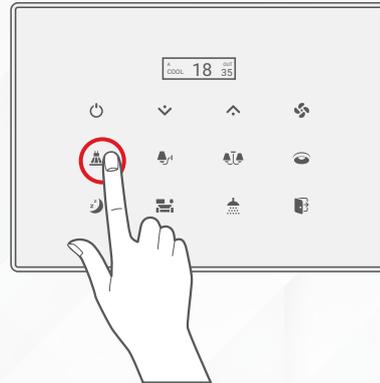
LIGHTS / SHUTTERS PROGRAMMING

You can pair the light channels with any wall panel. To do so, follow these steps:

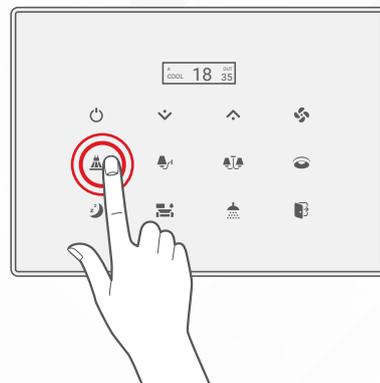
1 » Press any button on any channel of a relay or dimmer module for 6 seconds so that the LED indicator light of that button starts blinking.



2 » Shortly press on any lights or scene button on wall panel or press the wall switch that connected to dry inputs of the panel addition zones.



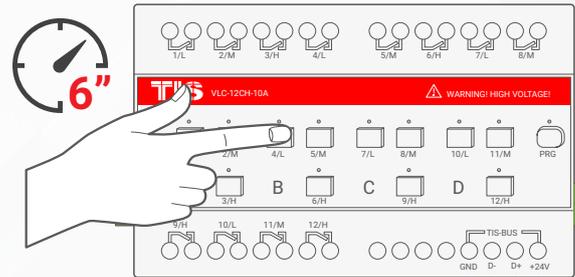
3 » Test the button on the panel by short pressing it for ON/OFF and long pressing it to dim (if channel is dimmable).



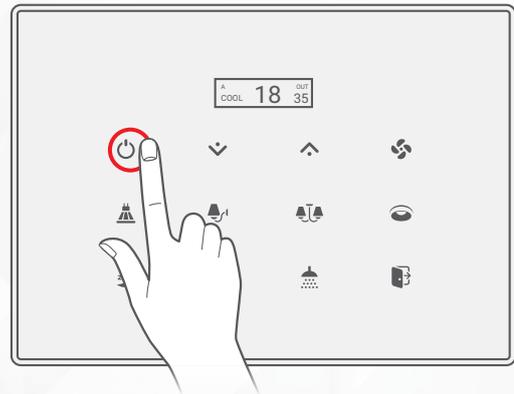
PAIRING (MANUAL PROGRAMMING)

FCU PROGRAMMING

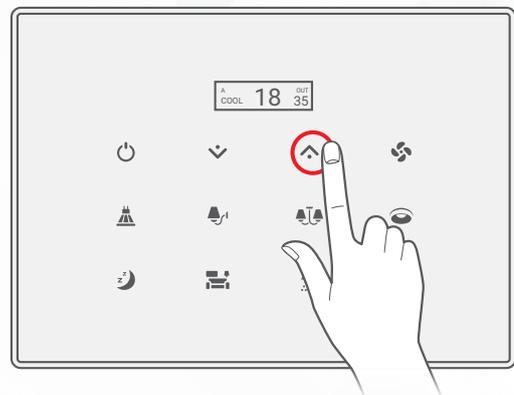
1 To program the FCU to any wall thermostat panel, press and hold the first Channel L (LOW) button for 6 seconds. The LED indicator of the pressed button will start blinking,



2 On the Luna bedside panel, turn the AC ON.



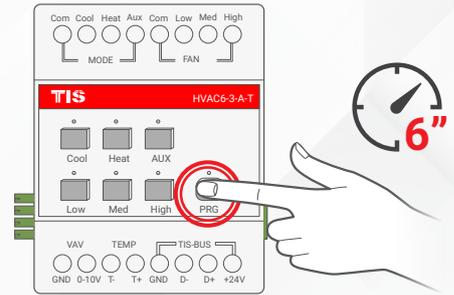
3 Test your air conditioning by changing the fan speed from low to medium to high. Your relay should respond accordingly.



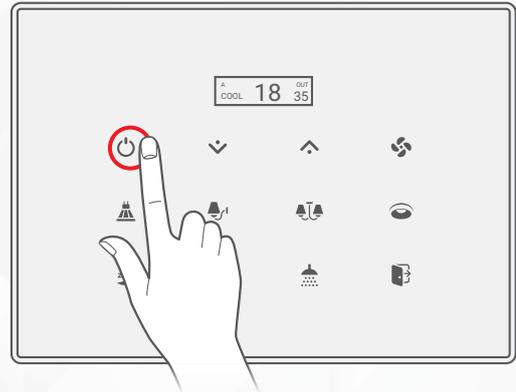
PAIRING (MANUAL PROGRAMMING)

HVAC PROGRAMMING

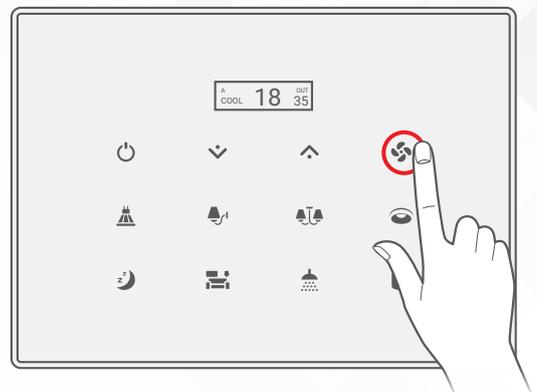
1 Press the PRG button of the HVAC Module for 6 seconds until the green LED turns on and is steady.



2 On Luna bedside panel, turn the AC ON.



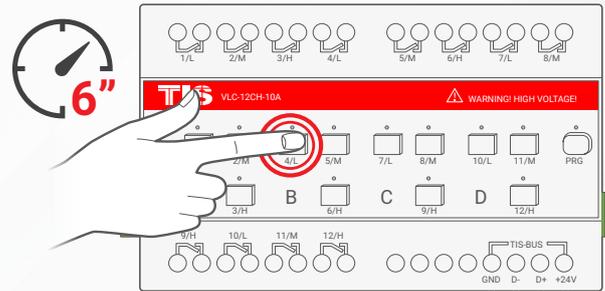
3 Test your air conditioning by changing the mood, Heat/Cool, and fan speed from low to medium to high. HVAC module should respond accordingly.



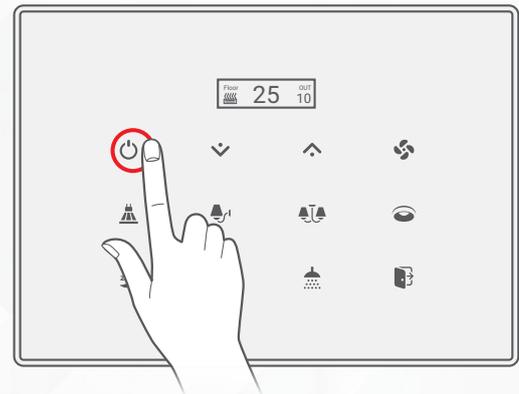
PAIRING (MANUAL PROGRAMMING)

FLOOR HEATING PROGRAMMING

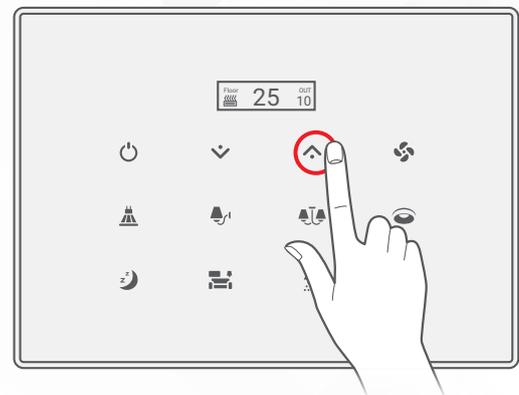
1 Press any button on any channel of a relay or dimmer module for 6 seconds so that the LED indicator light of that button starts blinking.



2 On Luna bedside floor heater page, turn the floor heating ON.



3 Test your floor heating by changing the temperature, relay should respond accordingly.



PAIRING (MANUAL PROGRAMMING)

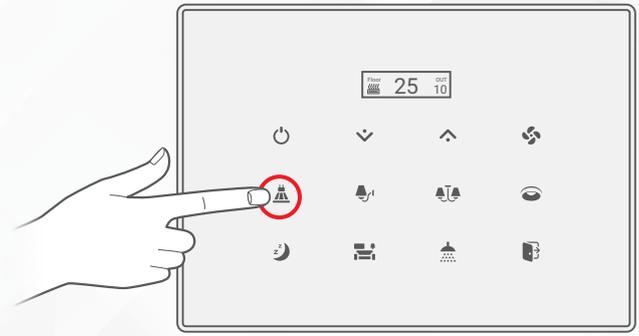
SCENARIO PROGRAMMING

The last row of the panel (buttons 5-8) can be programmed as mood (scene) that can save the other 4 buttons' and AC statuses

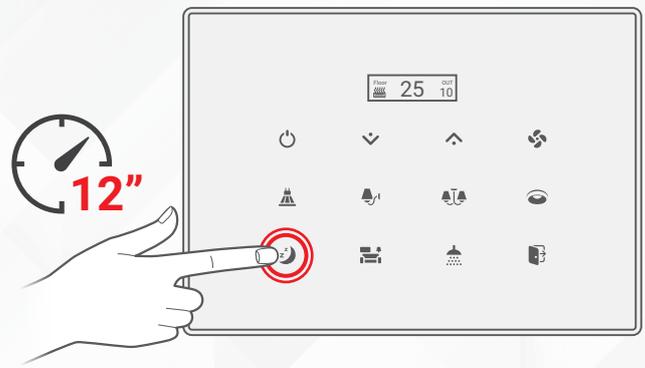
You can program the scene to save panel lights and shutter as one scene. Also, you can add air condition to your scene.

TO PROGRAM THE LIGHTS/SHUTTER SCENE ONLY

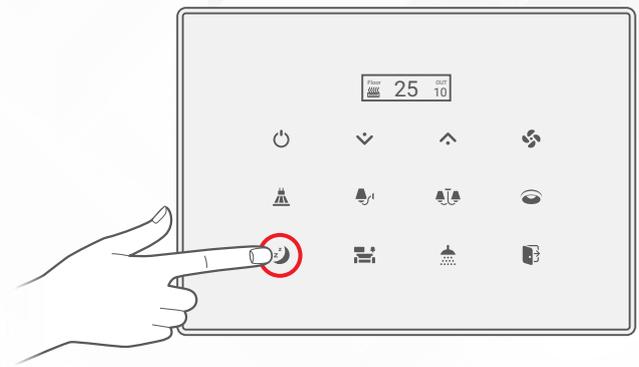
1 Set the first row (buttons 1-4) to lights ON/OFF, dim brightness, and shutter status, as per your preferred mood (scene).



2 Long press any button from 5-8 for 12 seconds until its LED blinks RED.



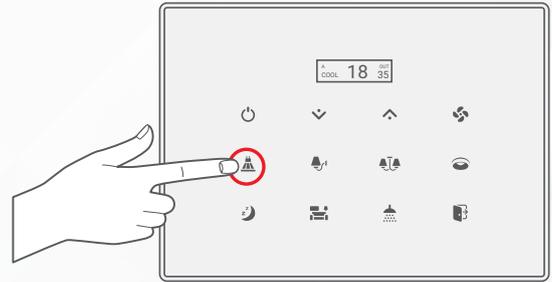
2 The scene is programmed on the pressed button; you can test it with a single press.



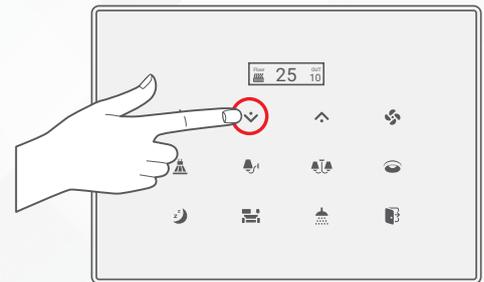
PAIRING (MANUAL PROGRAMMING)

TO PROGRAM THE LIGHTS/SHUTTER, AIR CONDITIONING & FLOOR HEATING SETTING IN THE SCENE

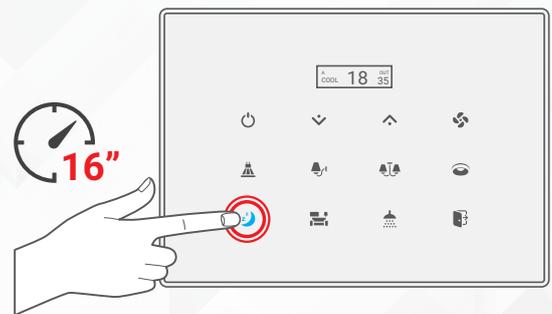
1 » Set the first row (buttons 1-4) to lights ON/OFF, dim brightness, and shutter status, as per your preferred mood (scene).



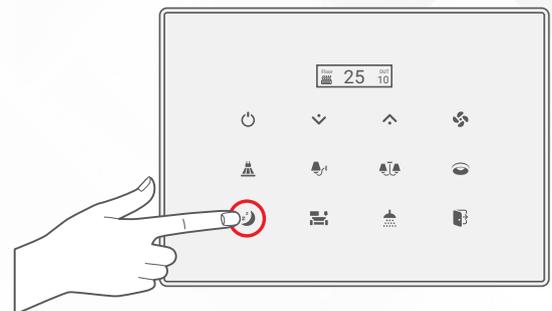
2 » Set your AC and floor heating desired mode and temperature.



3 » Long press any button from 5-8 for 16 seconds until its LED blinks BLUE.



4 » The scene is programmed on the pressed button; you can test it with a single press.



USER MANUAL

USING THE PANEL BUTTONS 1-8

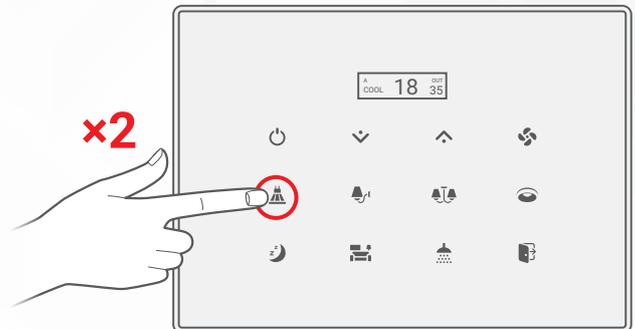
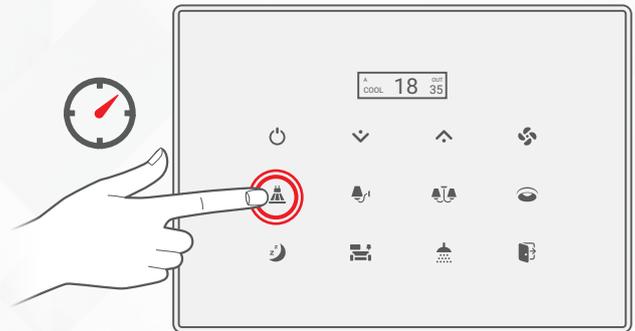
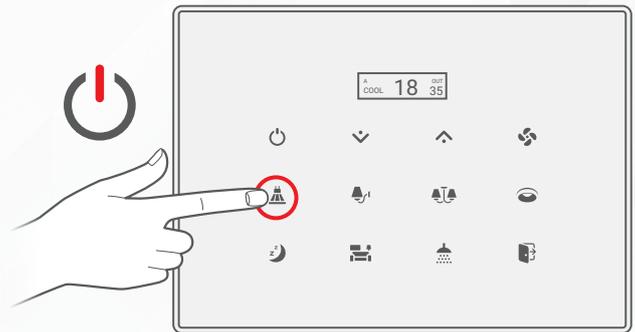
You can use the panel buttons 1-8; press on any button to get the settings that you programmed.

- ▶ Short press for ON/OFF or to run a scene.

- ▶ Long press to dim or ramp up the lights.

- ▶ Double click to trigger a special programmed scene.

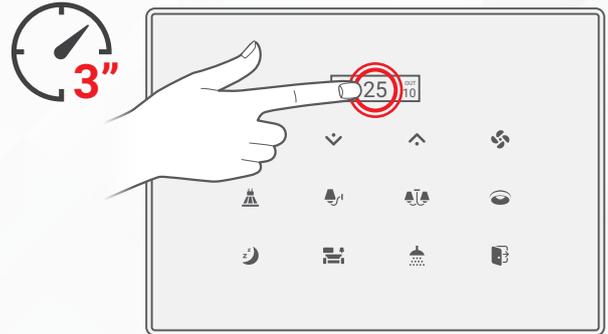
- ▶ You can enable or disable the white backlight, and you can set the LED status color from blue to red.



USER MANUAL

SHIFTING BETWEEN AC & FLOOR HEATING PAGE

➤ To change between the AC page and the floor heater page, press and hold the OLED screen for 3 seconds.



CONTROLLING AIR CONDITION

FUNCTION	CONTROL BUTTON	
Turn AC ON/OFF		Press the AC Power button to turn AC ON/OFF.
Increase Temperature		Press the arrow up button to increase temperature one degree.
Decrease Temperature		Press the arrow down button to decrease the temperature one degree.
Change Fan Speed		Long press the fan button to change the speed between low, med, high, and auto.
Change AC Mood		Long press the fan button for 6 seconds until the mood is shown on the screen. Then, change the mood to cool, heat, fan, or auto by short pressing on the up and down arrow buttons. Once you select your mood, do not press any button for 5 seconds or until the main screen display returns.

USER MANUAL

CONTROLLING FLOOR HEATING

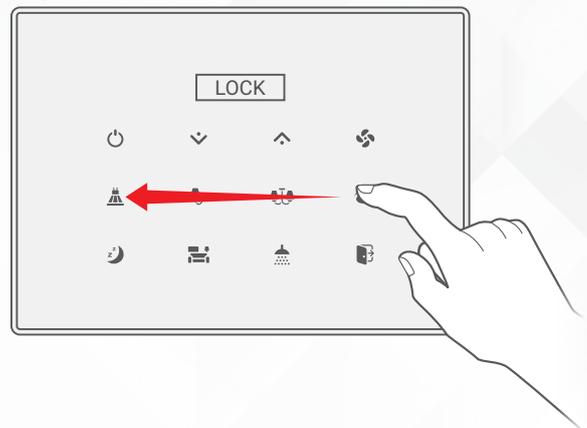
To Control Floor Heater:

FUNCTION	CONTROL BUTTON	
Turn Floor Heating ON/OFF		Press the AC Power button to turn AC ON/OFF.
Increase Temperature		Press the arrow up button to increase temperature one degree.
Decrease Temperature		Press the arrow down button to decrease the temperature one degree.

LOCKING / UNLOCKING THE PANEL

If this function is enabled in the software, you can lock the panel by swiping your finger from right to left on the middle row of the panel surface. When the buttons flash, it means the panel is successfully locked.

Follow the same steps to unlock the panel.



TROUBLESHOOTING



The panel's white LED blinks rapidly.

Reason: The panel address conflicts with another device in the TIS network. You need to press and hold any of the touch buttons for 6 seconds so that the panel can get a new address.



The panel buttons' LEDs do not turn ON, and the device is not powered.

Reason 1: There is no TIS-BUS power or no connection to the L/N input (if used AIR bus-3W converter).

Reason 2: The TIS 24V power supply is not connected to the TIS-BUS.



The wall panels fail to pair with other devices.

Reason 1: The TIS-BUS connection has a problem, or the wire has a short.

Reason 2: The manual programming function is disabled on the device (it is enabled by default).



The wall panels fail to control the device channels.

Reason 1: The TIS-BUS connection has a problem, or the wire has a short.

Reason 2: The programming address is faulty.

Reason 3: The panel is locked. You need to unlock it by swiping from right to left on the panel's middle row buttons.