

INSTALLATION MANUAL

TIS LUNA TFT TOUCH PANEL

4.3" Touch Panel

Model: LUNA-TFT43



i PRODUCT INFORMATION

This product is a BUS-operated wall panel with touch buttons for smart control over lights, curtains, indoor climate, appliances, and preset scenarios. This switch is remotely controllable and applicable in various types of buildings.

PRODUCT SPECIFICATIONS

	LCD	Size	3.5"
		Resolution	320*480 Pixels
		Contrast	500
		Viewing angle	160 degree
	Touch	Active area	4.3"
		Touch type	Capacitive
	Input	Temp sensor	Resistive Temp Sensor
		IR receiver	TIS Infrared code receiver
		Using panel addition	2-3 Digital Input
	Output	Using panel addition 3R	3 Relay output 3A/5A
		Using panel addition 3DL-12V	12V DC 50mA output
		Using panel addition 2DL-IRE	IR Emitter
	TIS Bus	Number of devices on 1 line	Max. 64
		Bus voltage	12-32 V DC
		Current consumption	<50 mA / 24 V DC
	Operation	LCD	TFT full color
		touch buttons	5 buttons for menu selection
		Backlight	2 White indicators
		TIS bus	TIS protocol messages and commands
	Functions	Upgrading	By Rs485 upgrading kit
		1 Press	ON/ OFF/ Scene
		Long press	Dim or ramp the lights
		Double click	Extra scene
	Dimensions	IR receiver	Music, scene, lights control
		Width × length × height	94mm × 129mm × 13mm
	Housing	Materials	Fireproof PC / Glass in front
		Casing color	Silver plating frame. Glass white or black
		Internal Parts color	Black & White
		IP rating	IP 50



BARCODE (UPC-A)





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.



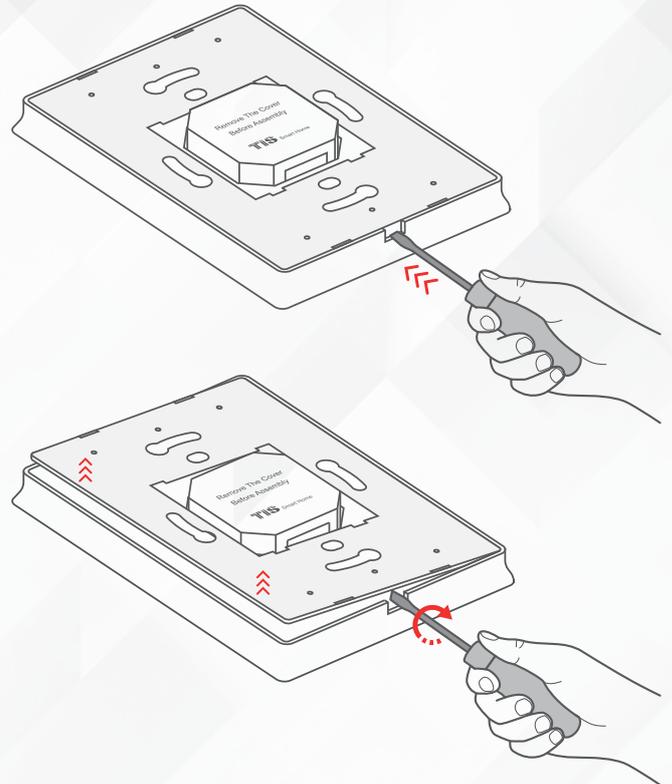
Mounting Location

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

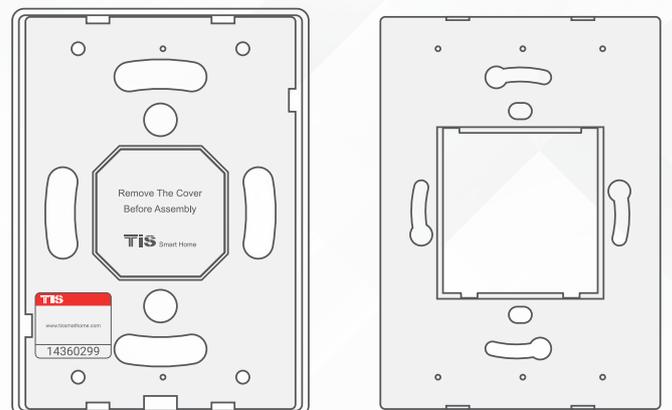


INSTALLATION STEPS

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

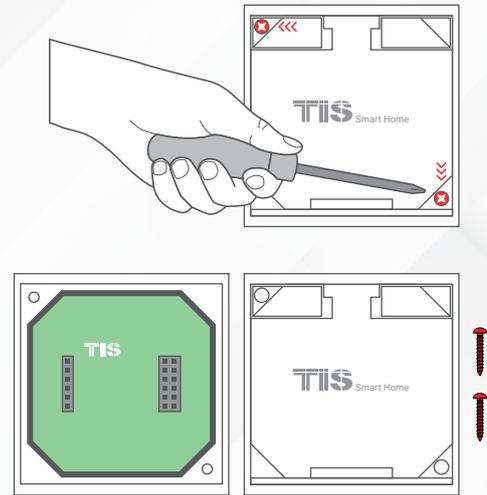


2  Separate the Cover, Main Panel, and Wall Base from each other.

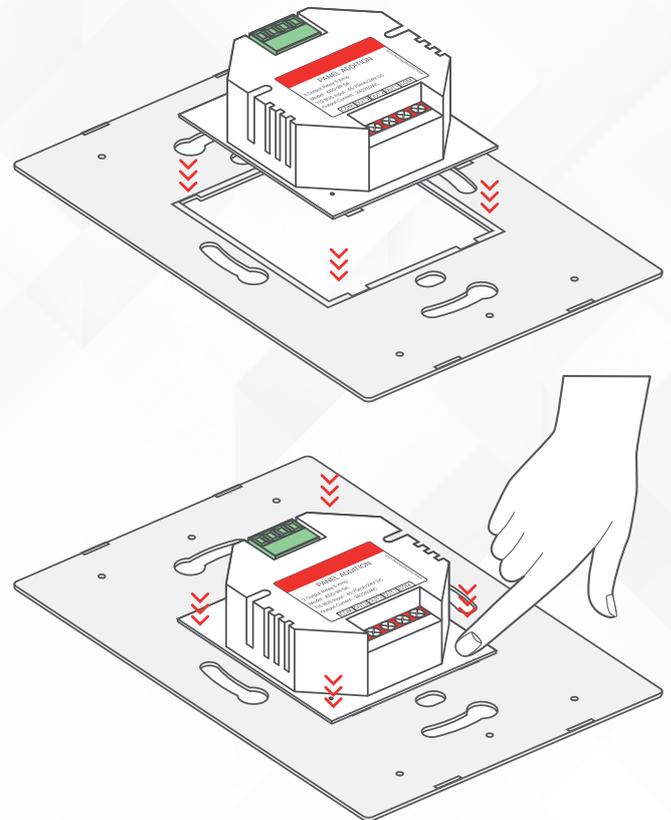


INSTALLATION STEPS

3 Remove the 2 screws on the Panel Addition cover.

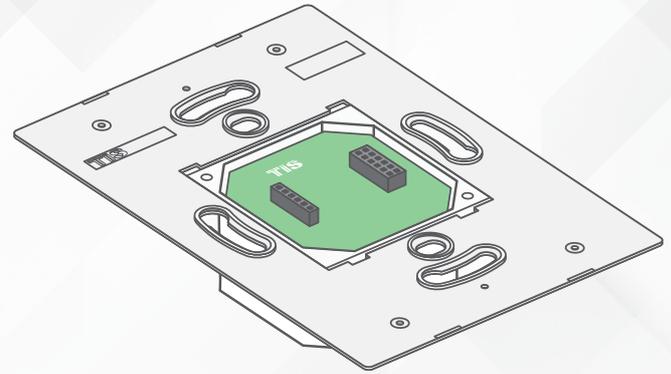


4 Connect the Wall Base and Panel Addition in this position. Place the upper pins as shown, and then push the down pins down with your fingers to assemble.



INSTALLATION STEPS

It should look like this following the correct assembly.

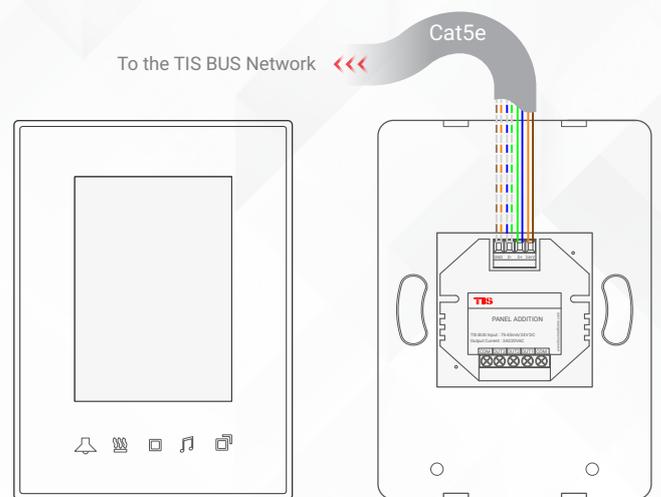


5» Turn off the main electrical source before installation. (WARNING HIGH VOLTAGE LOGO)



WARNING! HIGH VOLTAGE

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



INSTALLATION STEPS

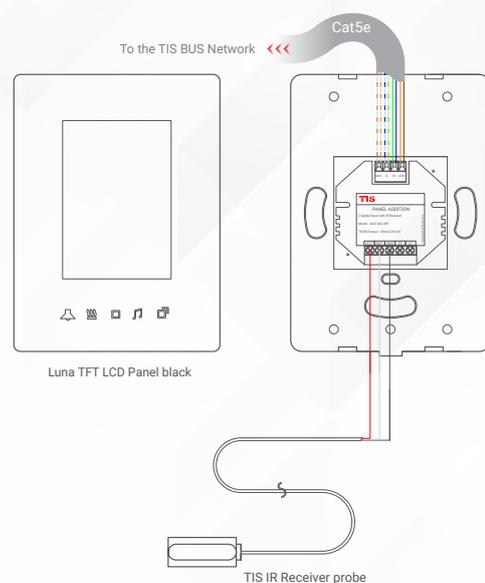
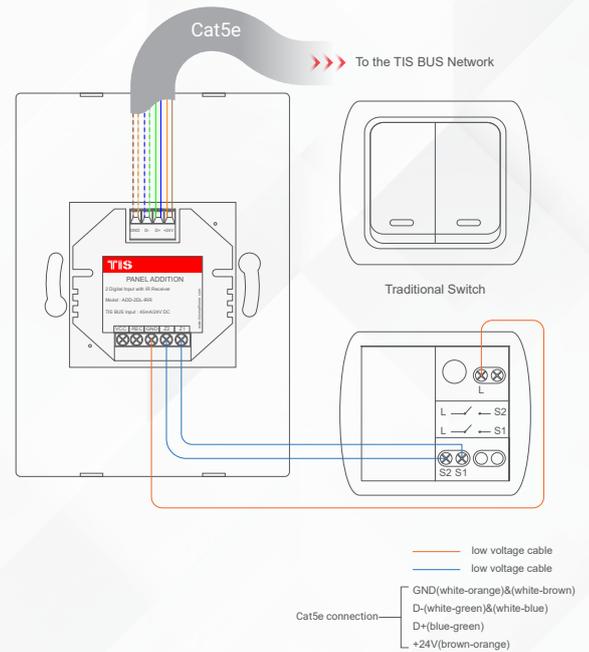
7 Connect the other connection if needed as per the panel addition type.

» 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.

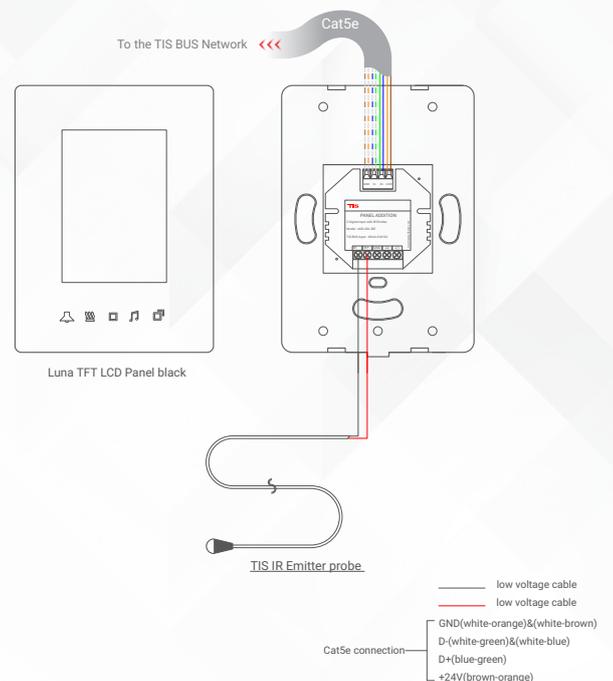
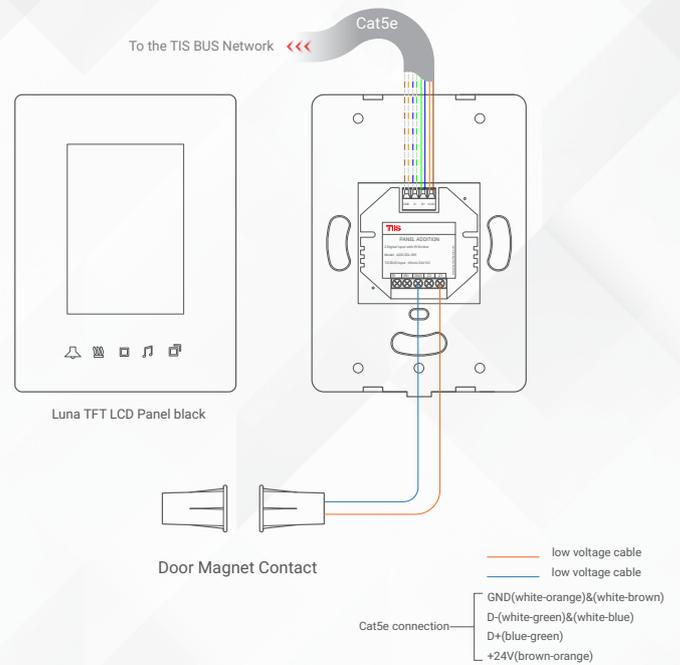


INSTALLATION STEPS

» 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.

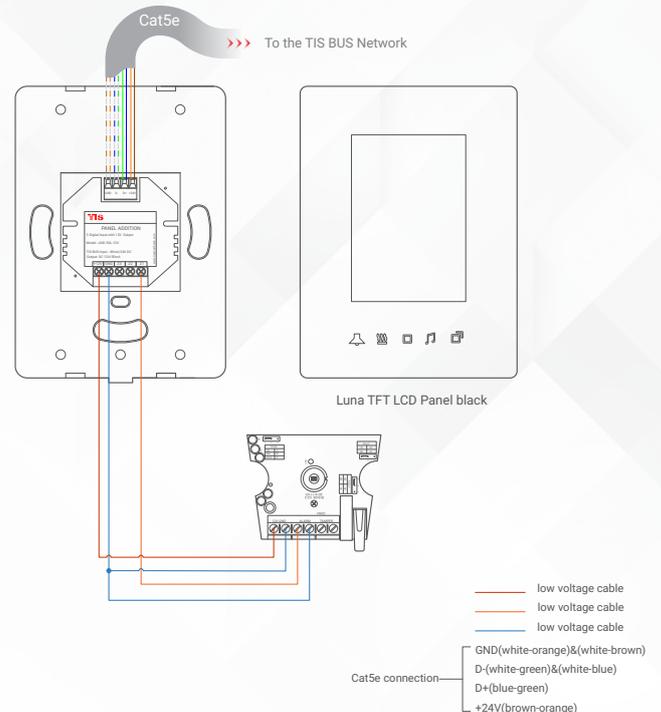
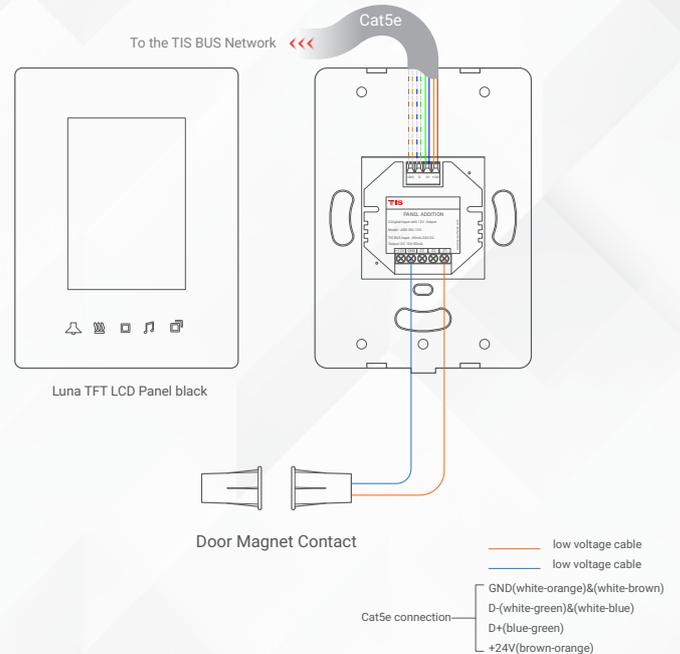


INSTALLATION STEPS

» 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.



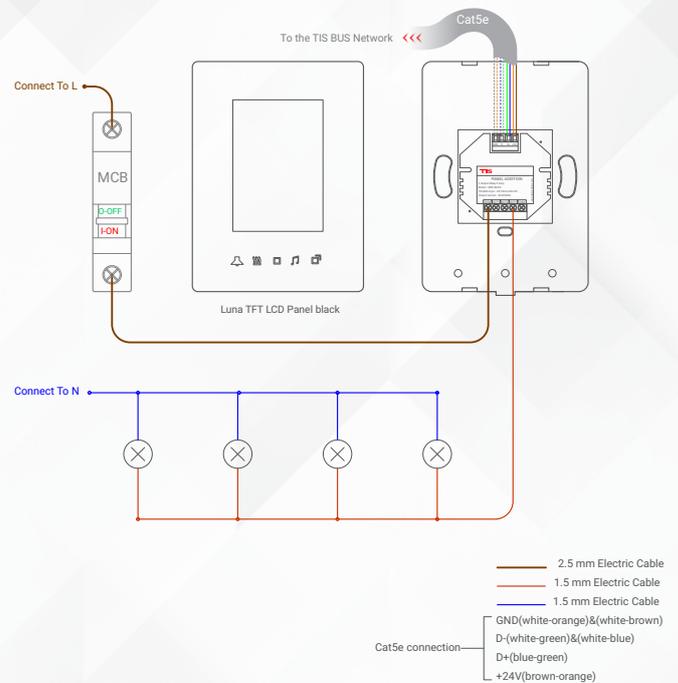
INSTALLATION STEPS

FOR PANEL ADDITION 3R-5A



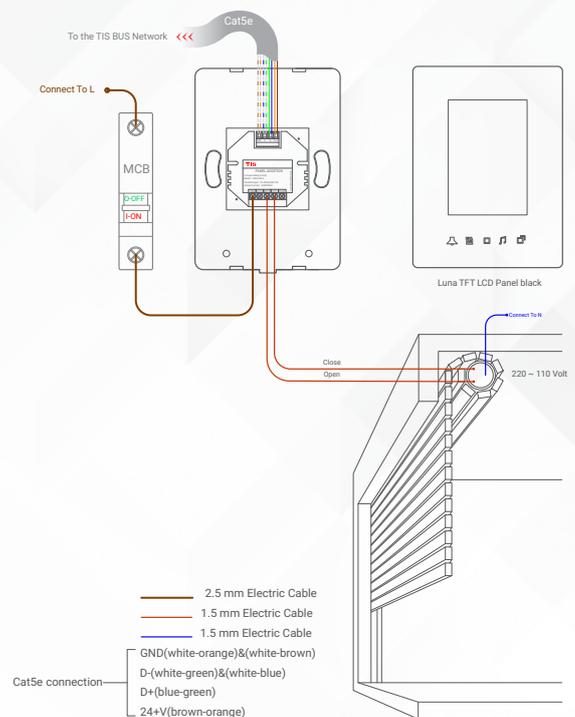
LIGHTING CONNECTION

- ▶ 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.

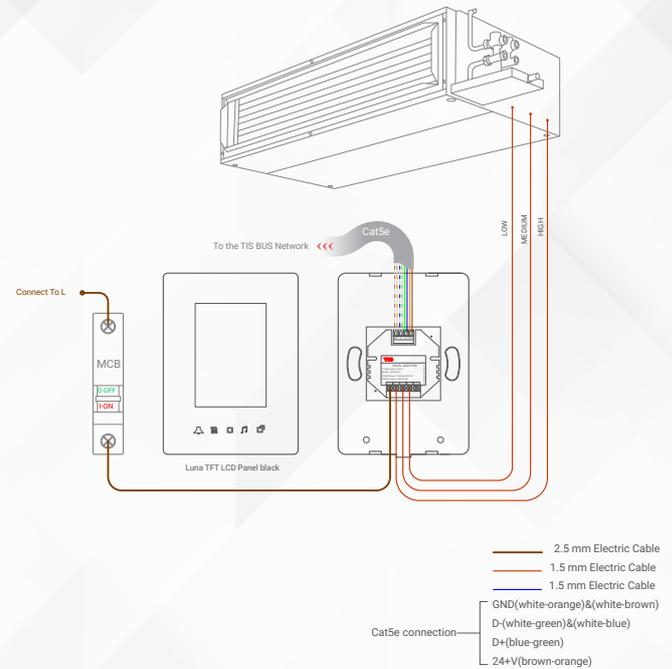
INSTALLATION STEPS

» 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.

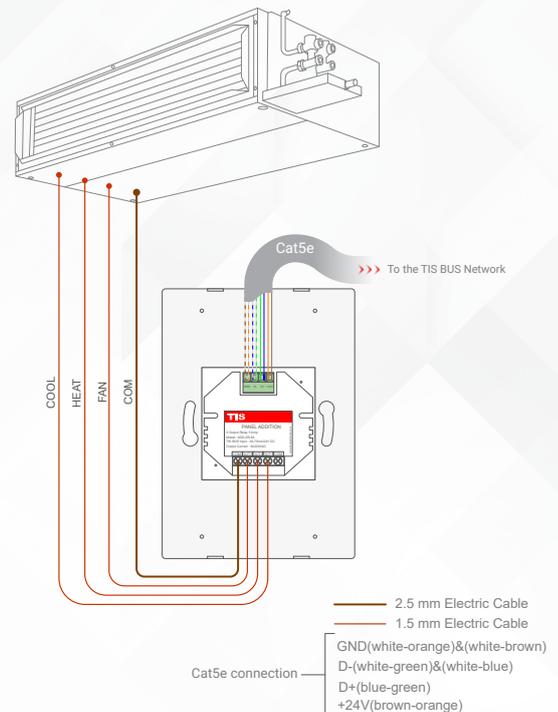
WARNING: Set the FCU function in the software before connecting the wires.



HVAC CONNECTION

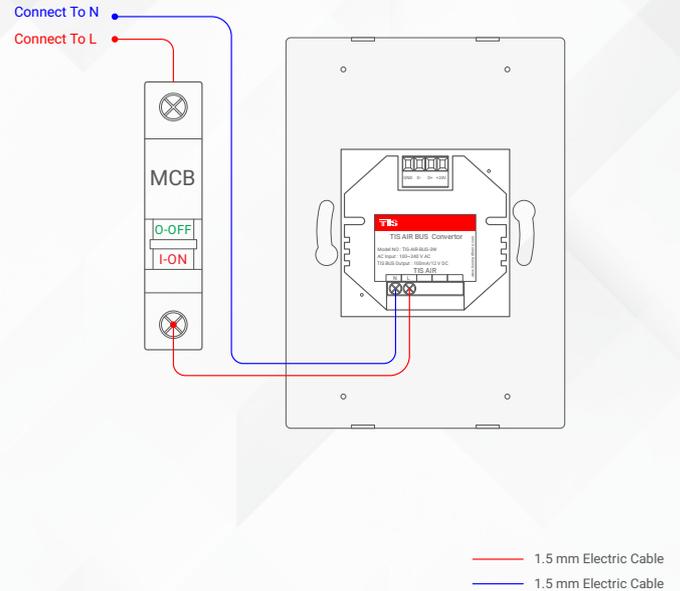
- ▶ Connect the HVAC COM (supply) wire to COM
- ▶ Connect the Cool, Heat, and FAN wires to Out1, Out2, and Out3 in the same order.

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

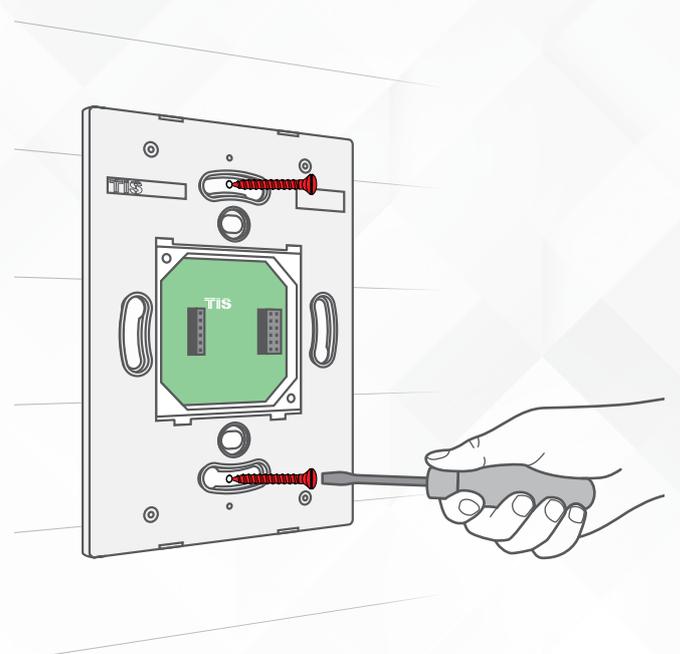


INSTALLATION STEPS

- 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.

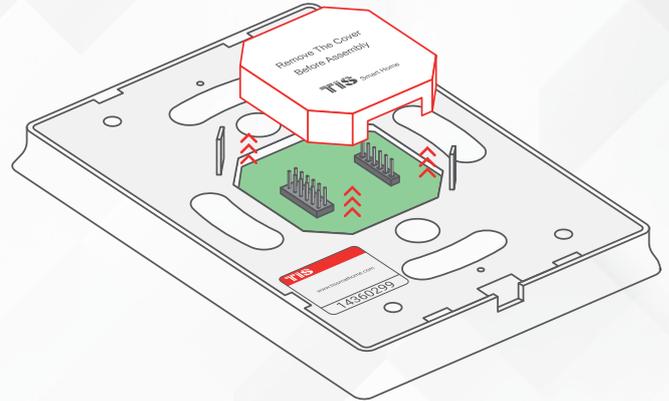




INSTALLATION STEPS

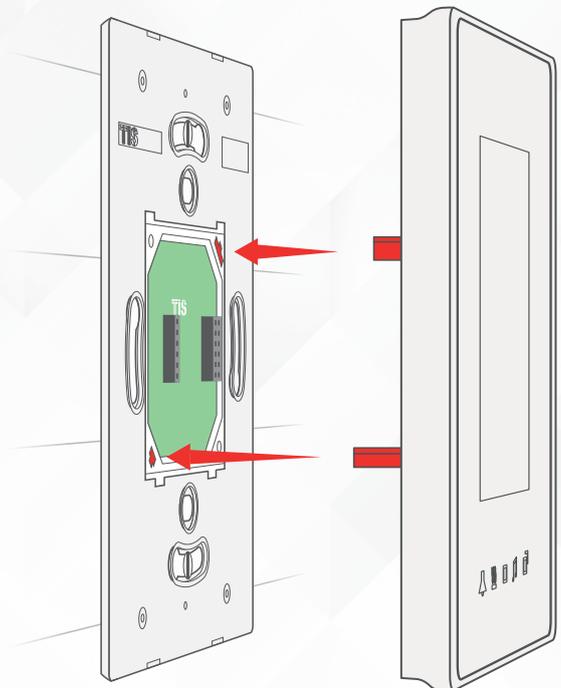
9»

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.

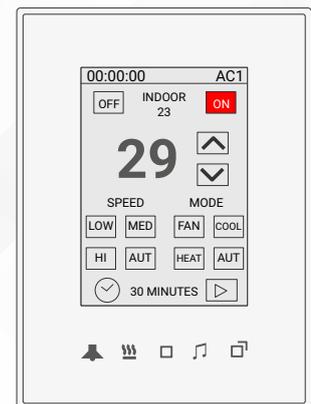


INSTALLATION STEPS

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.

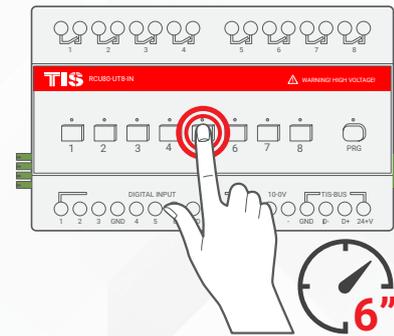


PAIRING (MANUAL PROGRAMMING)

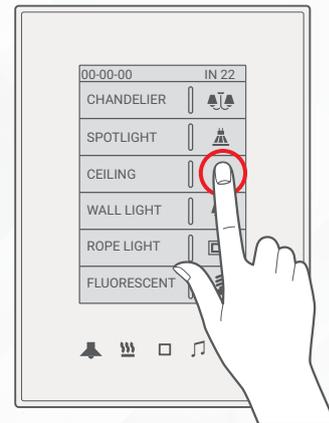
LIGHTS / SHUTTERS PROGRAMMING

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

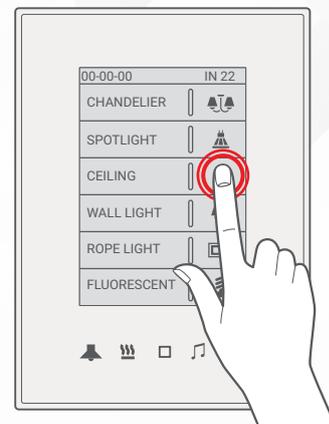
1 » Press any button on any relay or dimmer module channel for 6 seconds so that the LED indicator light of that button starts blinking.



2 » On the Luna lights pages, shortly press on any button or press the wall switch that is connected to the dry inputs of the panel addition zones.



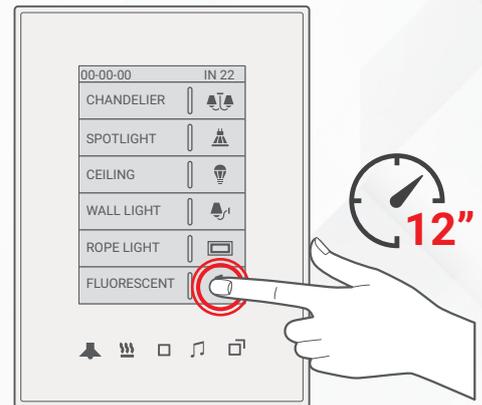
3 » Test the button on the panel by short pressing it for ON/OFF and long pressing it to dim (if channel is dimmable).



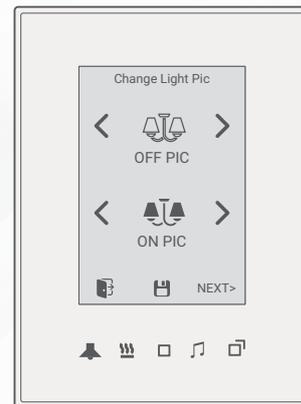
PAIRING (MANUAL PROGRAMMING)

LIGHTS / SHUTTERS PROGRAMMING

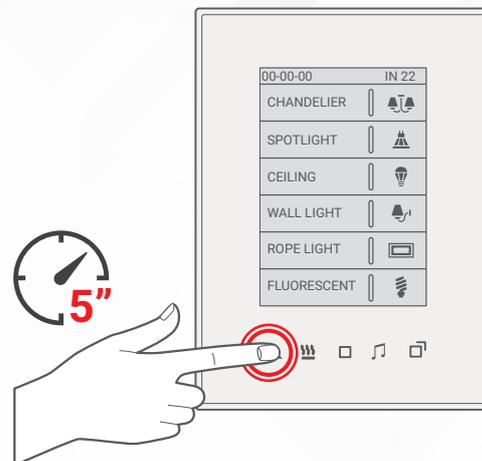
4» To change the icon and comment of each light button, you need to long press on the light's icon that you want to change for 12 seconds; a new page will be displayed.



5» In the new page, you can choose the icon for OFF status and the icon for ON status. Then, press Save and Next. Then, you can type the new comments and save it.



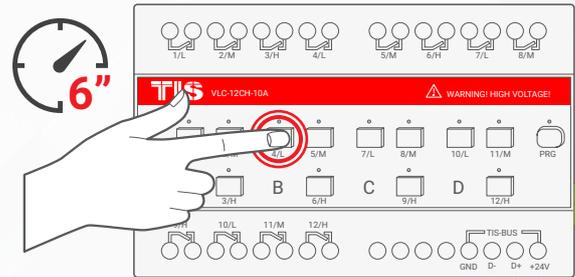
6» You can show/hide the lights page by long pressing on the lights menu icon (first icon under the LCD) for 5 seconds. Then, a new page will appear, and you can show/hide lights and RGB pages by checking or unchecking each.



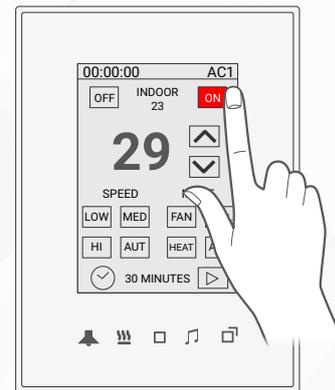
PAIRING (MANUAL PROGRAMMING)

FCU PROGRAMMING

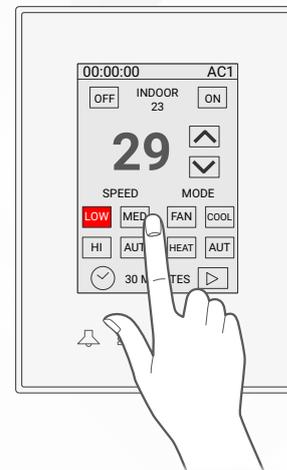
1 To program the FCU to any wall thermostat panel, press and hold the first Channel L (LOW) button for 6 seconds. The LED indicator of the pressed button will start blinking.



2 On the Luna AC page, turn the AC ON.



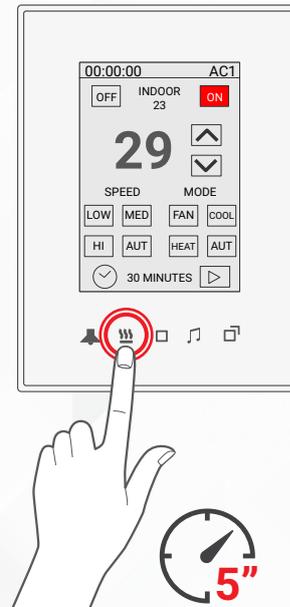
3 Test your air conditioning by changing the fan speed from low to medium to high. Your relay should respond accordingly.



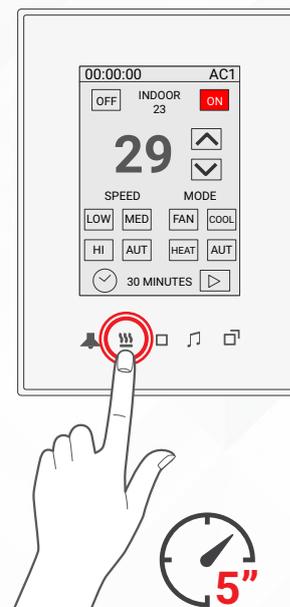
PAIRING (MANUAL PROGRAMMING)

FCU PROGRAMMING

4 You can change AC1 and AC2 page settings, such as C/F temperature type, and disable or enable fan speeds and AC moods by pressing on the AC menu icon (second icon under the LCD) for 5 seconds and then pressing on the AC1 or AC2, changing the settings, and pressing Save.



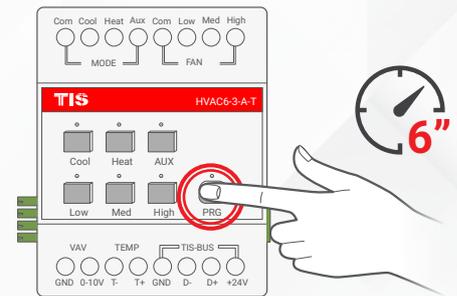
5 You can show or hide AC pages by long pressing on the AC icon for 5 seconds. Then, a new page will appear, and you can show/hide the AC master slave page and the floor heating page.



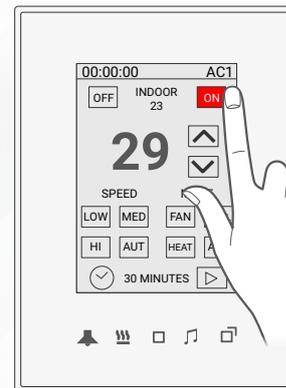
PAIRING (MANUAL PROGRAMMING)

HVAC PROGRAMMING

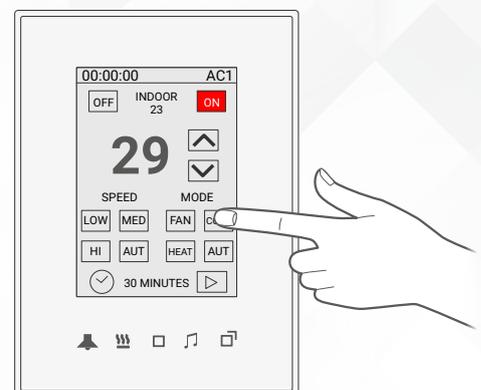
1 Press the PRG button on the HVAC module for 6 seconds until the green LED turns on and is steady.



2 On the Luna AC page, turn the AC ON.



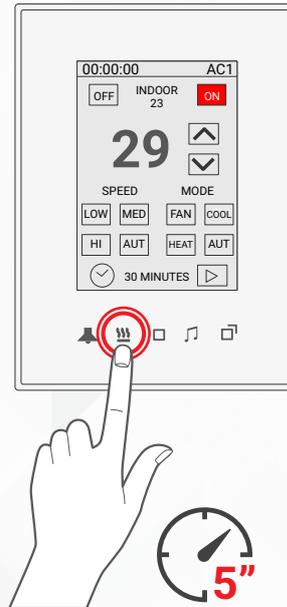
3 Test your air conditioning by changing the mood, heat/cool, and fan speed from low to medium to high. The HVAC module should respond accordingly.



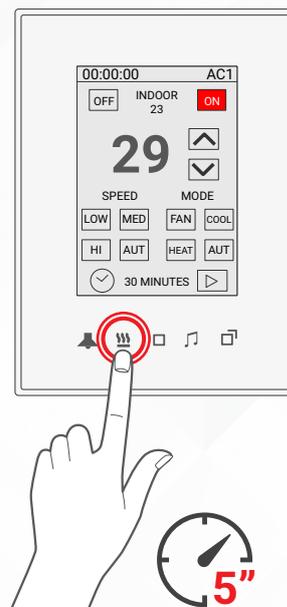
PAIRING (MANUAL PROGRAMMING)

HVAC PROGRAMMING

4 >> You can change the AC1 and AC2 page settings, such as C/F temperature type and disable or enable fan speeds and AC moods by pressing on the AC menu icon (second icon under the LCD) for 5 seconds. Then, press on the AC1 or AC2, change the settings, and press Save.



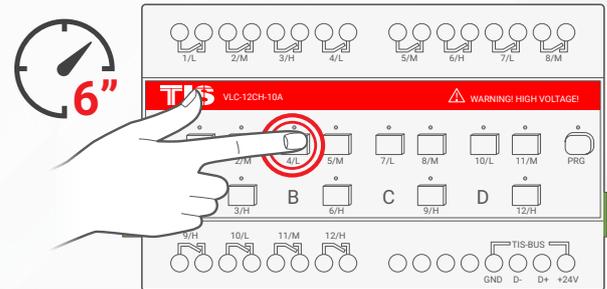
5 >> You can show or hide AC pages by long pressing on the AC icon for 5 seconds. Then, a new page will appear, and you can show/hide the AC master slave page and the floor heating page.



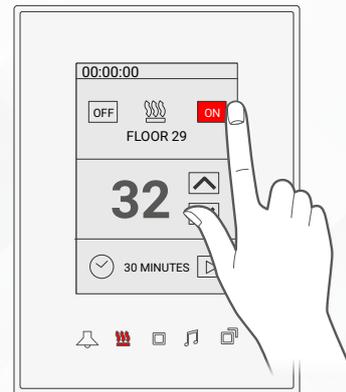
PAIRING (MANUAL PROGRAMMING)

FLOOR HEATING PROGRAMMING

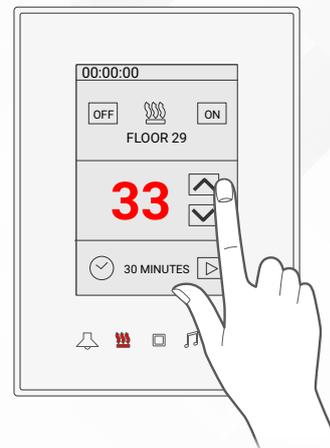
1 Press any button on any relay or dimmer module channel for 6 seconds so that the LED indicator light of that button starts blinking.



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



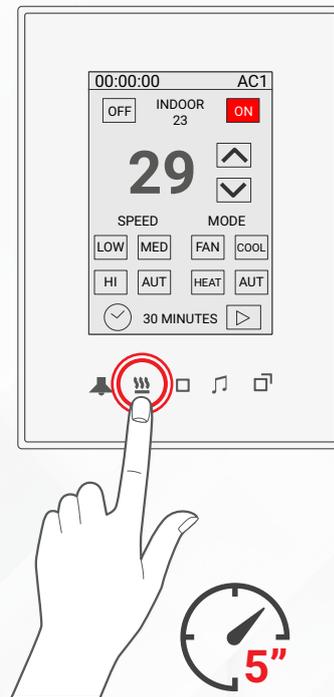
3 Test your floor heating by changing the temperature; the relay should respond accordingly.



PAIRING (MANUAL PROGRAMMING)

FLOOR HEATING PROGRAMMING

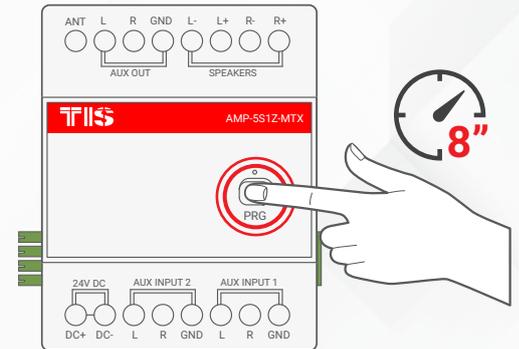
4 You can show or hide AC pages by long pressing on the AC icon for 5 seconds. Then, a new page will appear, and you can show/hide the AC master slave page and the floor heating page.



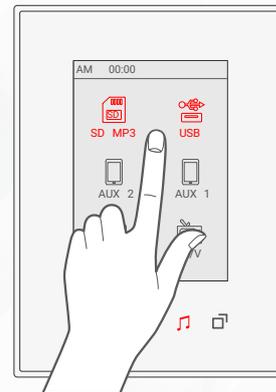
PAIRING (MANUAL PROGRAMMING)

MUSIC PROGRAMMING

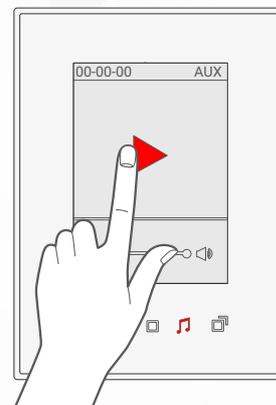
1 Long press the PRG buttons on the Audio Matrix for 8 seconds. The PRG LED indicator will start blinking.



2 On the Luna music page, press the play button on the radio or USB/SD card source.



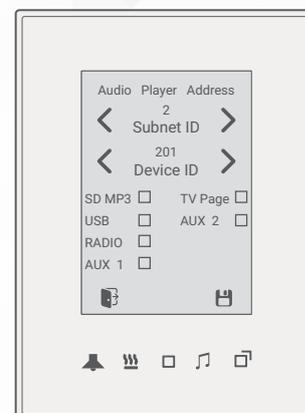
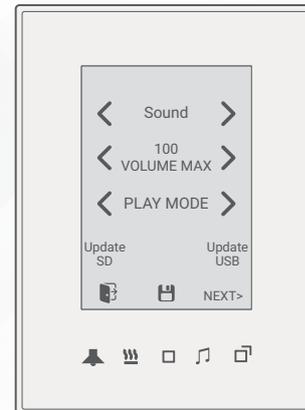
3 Wait a few seconds and then try to play the source; the amplifier should react to the panel commands.



PAIRING (MANUAL PROGRAMMING)

MUSIC PROGRAMMING

4» You can change the treble and bass, maximum volume, and play mode by pressing on the Audio menu icon (3rd icon under the LCD) for 5 seconds. Then, follow the options and settings displayed on the screen.



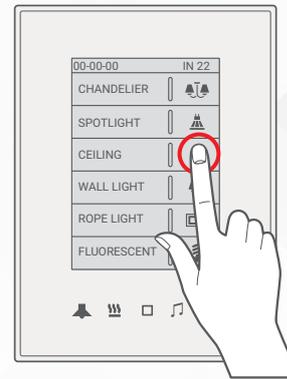
» Also, from the same page you can enable/disable music functions such as SD, USB, FM radio, auxiliary inputs, and TV control functions.

PAIRING (MANUAL PROGRAMMING)

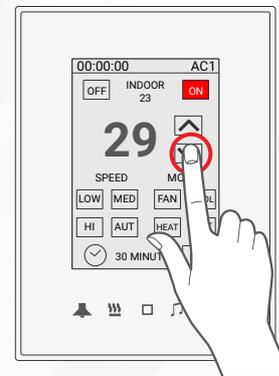
SCENARIO PROGRAMMING

In the Extra pages, the Mood1, Mood2, and APP pages can program the scenes of the panel. You can go to these pages by pressing on the Extra menu icon (4th icon under the LCD) and then selecting the mood1, mood2, or app icon from the menu on the LCD. To program the mood, please do the following:

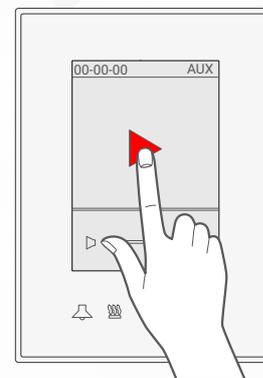
1 Set the lights brightness ON/OFF and RGB color on lights pages 1, 2, and 3 and RGB1 and RGB2 as per your desired mood.



2 Set your Air condition and floor heating desired setting.



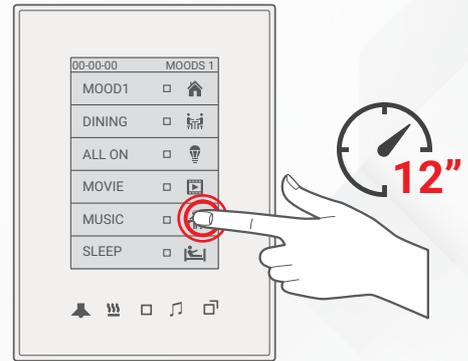
3 Play your favorite music or radio channel at the specific volume you want.



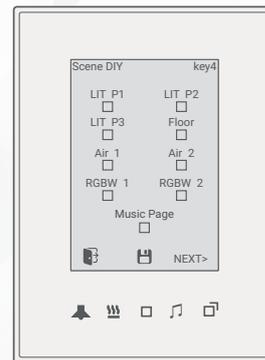
PAIRING (MANUAL PROGRAMMING)

SCENARIO PROGRAMMING

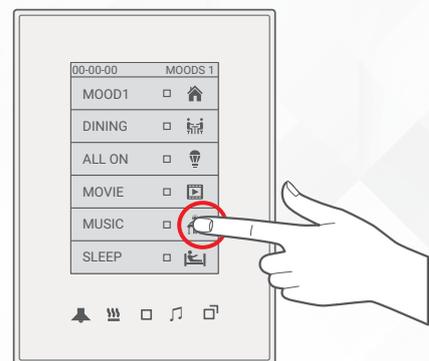
4 Go to the Mood page and long press for 12 seconds on the mood icon you want to program.



5 A new window will appear to show you the options you want to save in your mood. You can select what page settings you want to include, such as light pages 1, 2, and 3, RGB, AC, floor heating, and music. You can set your mood just to control lights or AC or music or to control them all together. Once you've selected your settings, press Save.



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



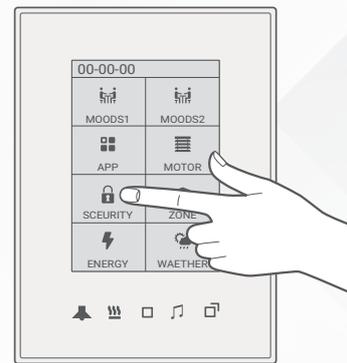
OTHER SETTINGS

CHANGING YOUR SECURITY PASSWORD

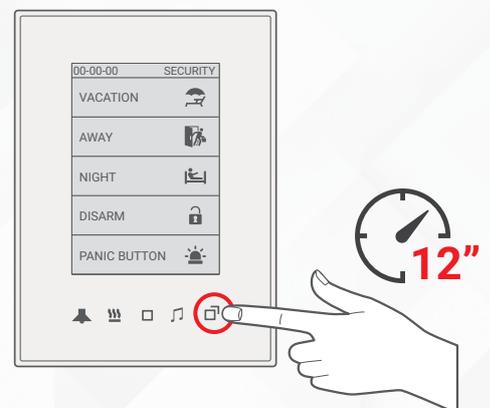
You can change the default security page password “1234” and the default duress password “9999” to new passwords.

To change the passwords, you need to complete the following steps:

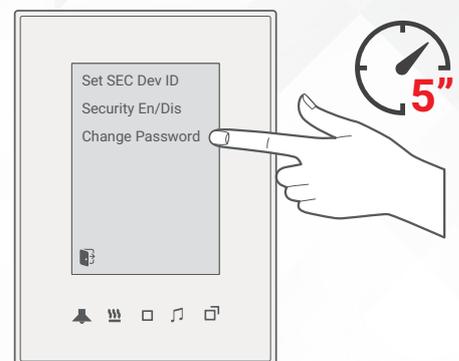
1 Go to the Security page.



2 Press on the Extra icon for 5 seconds until a new page appears.

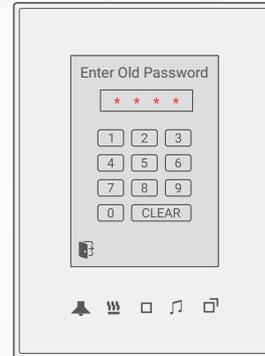


3 Short press on Change Password to change the arm/disarm password, or long press for 5 seconds on Change Password to change the duress password.

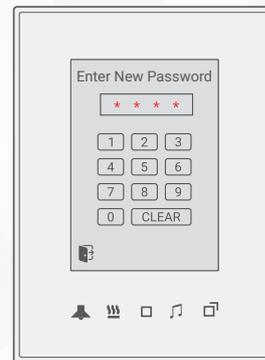


OTHER SETTINGS

4 >> Type the old password.



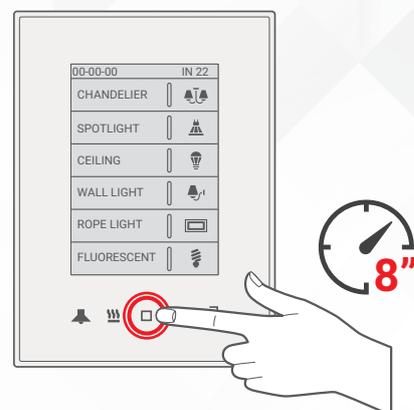
5 >> Type the new password and then save.



CHANGING DISPLAY SETTINGS

You can change the background color and other options by doing the following:

1 >> Press and hold the middle IR buttons under the LCD for 8 seconds until a new page is displayed.

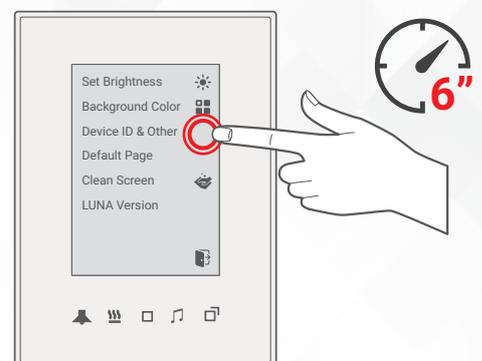
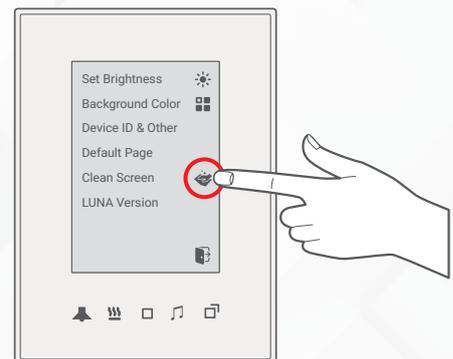
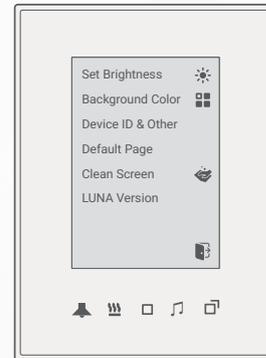


OTHER SETTINGS

2» On this page, you can change the panel skins (background color) and brightness level and enable the default page settings and lock page settings.

» Also, you can press Clean screen to disable the touch function for 30 seconds so that you can clean the screen.

» You can also display and change the panel Subnet ID and Device ID address by long pressing on the panel address for 6 seconds.





USER MANUAL



USING THE PANEL MENU

You can navigate between different pages using the Menu icons under the LCD.



LIGHTS CONTROL

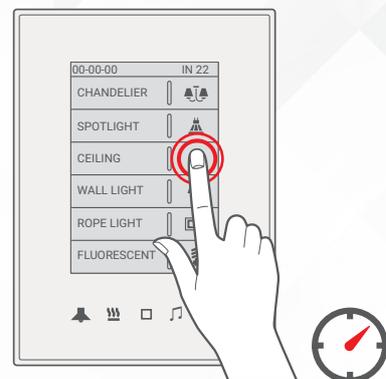
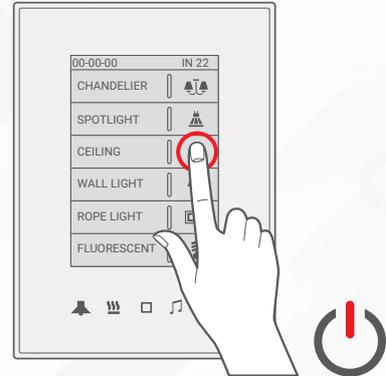
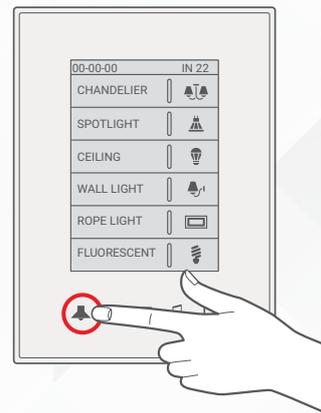
When you press the lights icon under the LCD, the lights page will shift in the following sequence: lights page 1, lights page 2, lights page 3, RGB page 1, RGB page 2.



Each lights page has 6 icons. You can press on the lights icons to control your lights as follows:

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

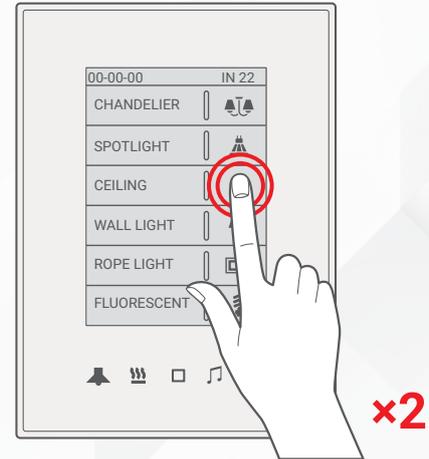
- ▶ Long press to dim or ramp up the lights.





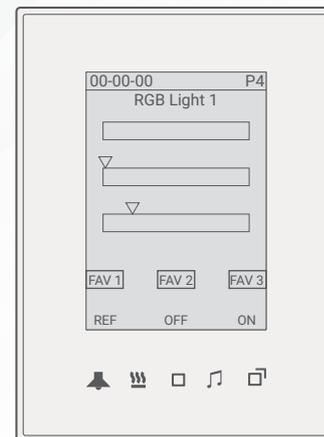
USER MANUAL

- ▶ Double tap to trigger a special programmed scene.



- » In each RGBW page, you can control one RGBW color with 3 Favorite buttons.

In each RGB page, you can select the color and then press the ON button to play it. You can also save your favorite color by selecting your color first and then pressing and holding on FAV1, FAV2, or FAV3 for 6 seconds to save. The FAV button color will change to the desired color you selected once you've successfully saved it.



USER MANUAL

AC CONTROL

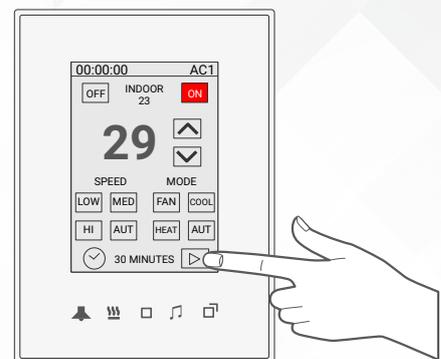
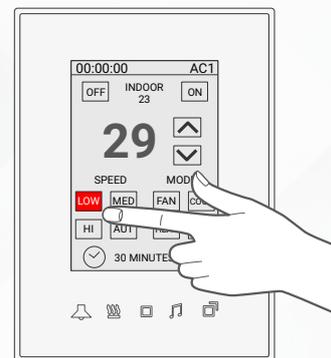
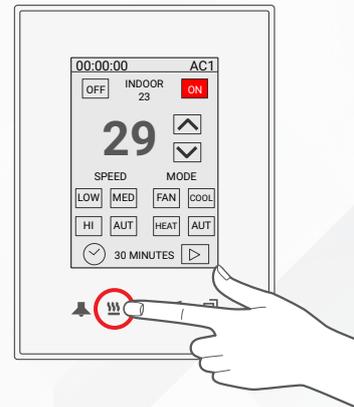
You can navigate between the AC control page (AC1-AC8) + Slave AC1-2 and floor heater pages 1-2 by pressing on the AC menu icon under the LCD.

- ▶ In each AC page, you can control your air conditioning ON/OFF by pressing on the ON/OFF button.

- ▶ You can increase or decrease the set temperature and change the fan speed and AC modes.

- ▶ You can also set a timer to turn the AC ON if it was OFF or to turn it OFF if it was ON by pressing on the timer, and you can adjust the timer by pressing on the clock many times.

- ▶ In the floor heating pages, you can turn it ON/OFF by pressing on the ON/OFF button, and you can change the set temperature.



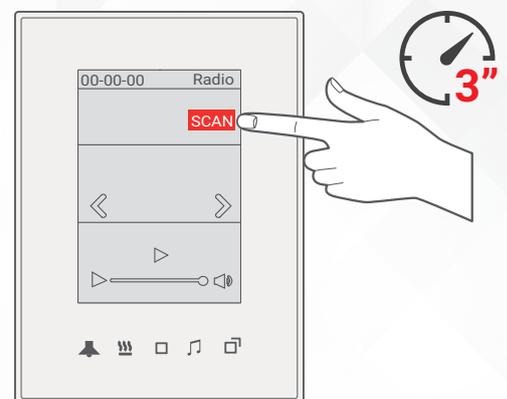
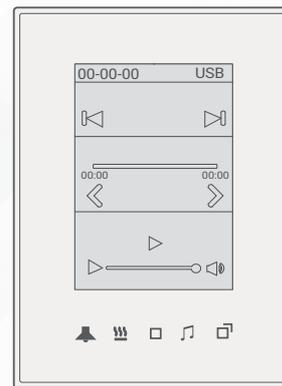
USER MANUAL

MUSIC CONTROL

▶ Press on the music icon, then select your source, such as SD card, USB, FM Radio, Auxiliary, or TV control.

▶ In USB/SD, you can play your next or previous album and track, and you can increase or decrease the volume.

▶ In FM radio, you can scan the channels by pressing and holding on the scan button for 3 seconds. The radio will start scanning. It may take a couple of minutes to finish scanning. Then, you can select the scanned channel and play or stop the radio; you can also change the volume.



USER MANUAL

MUSIC CONTROL

▶ In Auxiliary inputs, you can play, stop,

▶ In TV control, you can send infrared commands to control your TV by pressing on the related icons.





USER MANUAL

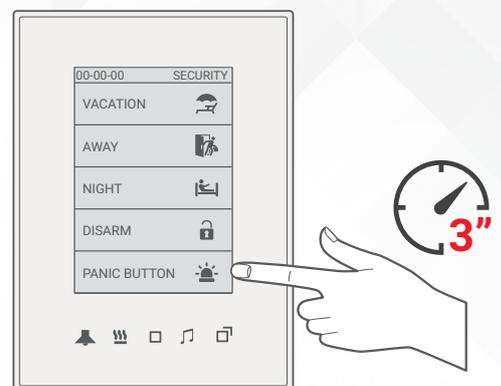


SECURITY ARMING / DISARMING

Press the extra menu icon, and select Security from the LCD menu.

Then, you can arm your system for vacation, away, night, or day mode, or you can disarm it. Once you arm or disarm, it will ask you for the password. The default arm/disarm password is 1234, and the default duress password is 9999.

To trigger the panic button, you need to press and hold it for 3 seconds to activate the panic alarm.



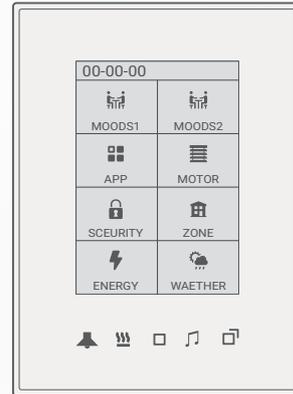


USER MANUAL



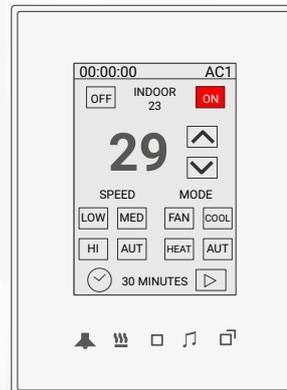
OTHER SYSTEM CONTROLS AND MONITORING

You can select an extra page's other function to monitor or control curtain motors, a weather station, an energy meter, security zones, and health sensors.



TIS-MRC REMOTE CONTROL

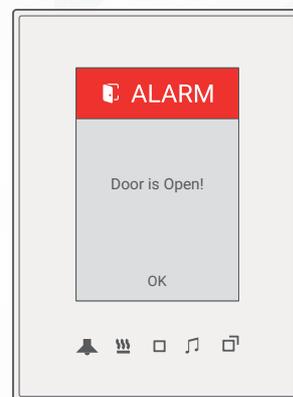
You can use TIS's IR Remote Control to run programmed buttons 1-12. You can control the AC, floor heater, music audio player, curtains, security arming and disarming, and moods.



MESSAGES DISPLAY

The panel can display urgent messages with a buzzer sounding on its LCD.

For normal messages, a message icon will appear in the top left corner of the LCD, and you will need to press on it to display the message on the LCD screen.





TROUBLESHOOTING



The panel's LCD blinks rapidly

Reason: The panel address conflicts with another device in the TIS network. You need to press and hold the IR button (IR middle button) 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.



The page is asking for a password.

Reason: The page's password lock is enabled. The default password is 1234. You can disable this locking page function in the software. If you've forgotten the password, you can email your Luna MAC number to the tech support team and they will generate an unlock password for your panel.



Music stops and will not play the next track once the current track finishes.

Reason: In the Luna Music Page, the Play Mode setting is set to Play Once. You should change it to Play All.