TELLUR

WiFi Smart Ambient Thermostat TSH02

TLL331431

User manual
Manual de utilizare
Manual del usuario
Manuel d'utilisation
Manuale d'uso
Benutzerhandbuch

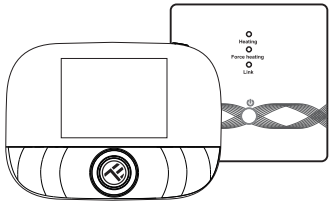
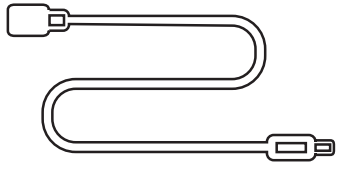
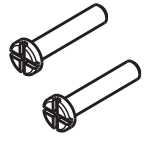
INTO YOUR FUTURE

EN

Thank you for choosing Tellur!

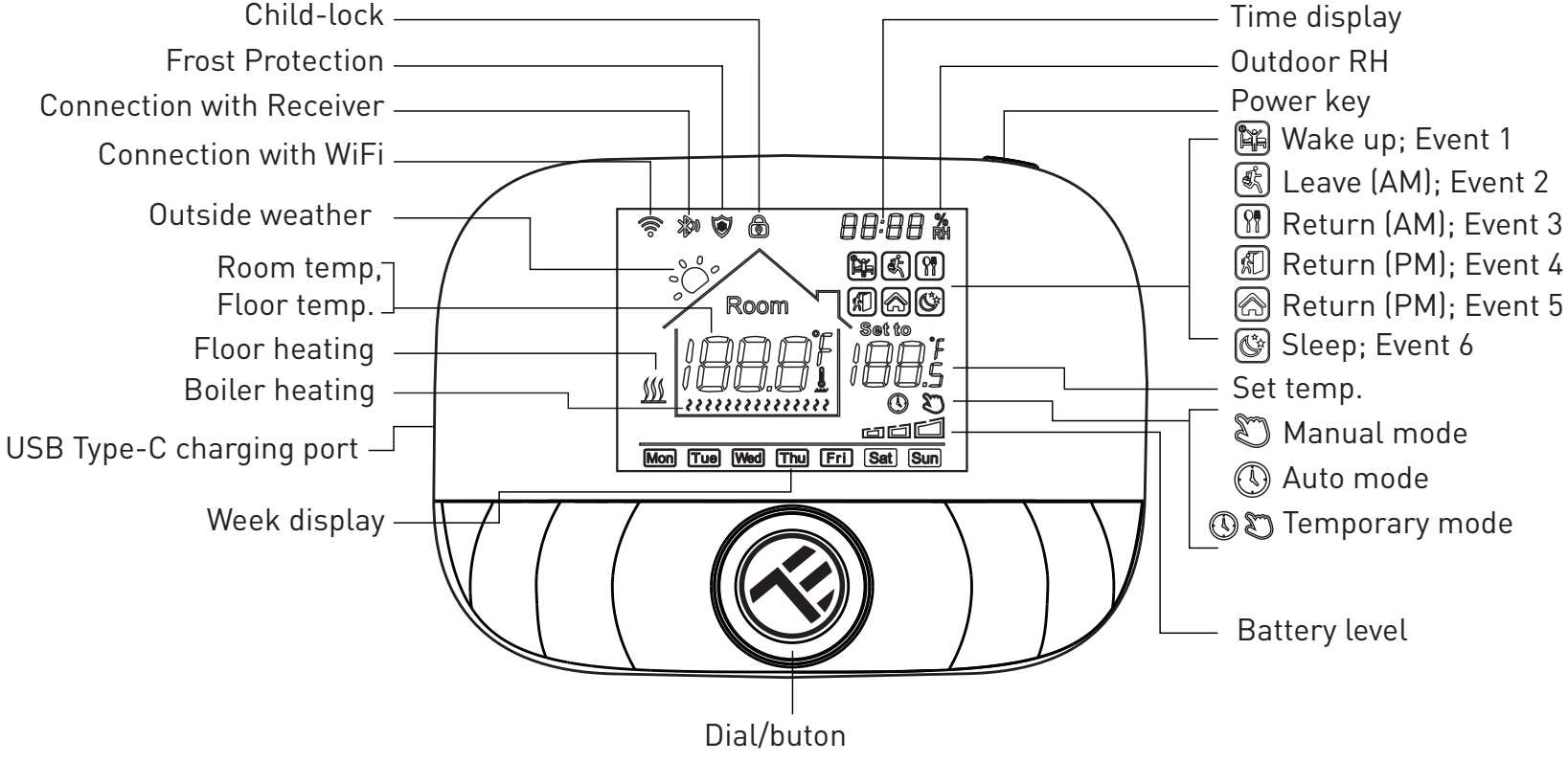
To ensure an optimum performance and safety, please, read this user manual carefully before using the product. Keep this user manual safe for future references.

1. WHAT'S IN THE BOX

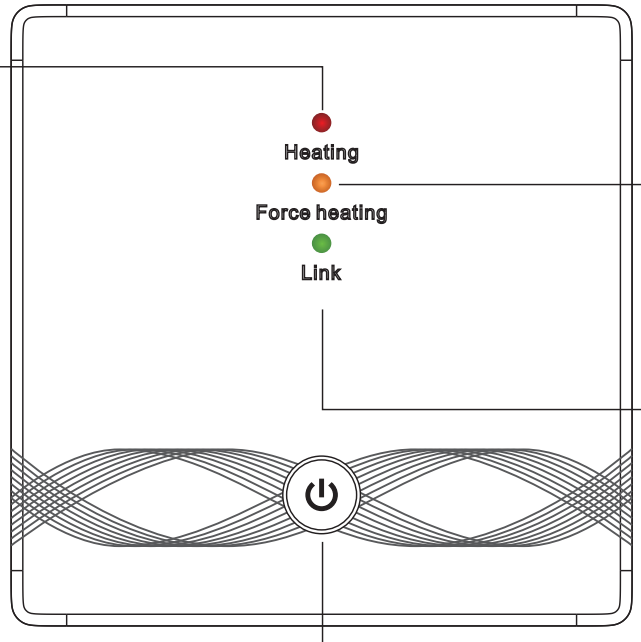
			
Central unit & receiver	USB Type-C cable	Screw pack	User manual

2. PRODUCT DIAGRAM

2.1. Central unit



2.2 Receiver



Red light ON: Heating ON
Red light OFF: Heating OFF

Yellow light ON: Force Heating ON
Yellow light OFF: Force Heating OFF

Green light Flashing: Pairing
Green light ON: Pairing complete
Green light OFF: Pairing incomplete

Power Light ON: Power ON
Power Light OFF: Power OFF

3.TECHNICAL SPECS

Utilization: Boiler and electric heating systems
Brand compatibility: Universal
Receiver: Wired, wall mounted
Receiver connectivity: Wired to heating system, AC 100-240V 50/60Hz
Wireless 433MHz (FSK) with central unit (up to 200 meters)
Receiver input load: Max 3A for boiler, Max 16A for electric heating
Receiver power consumption: Max 1W
Central unit: Wall mounted or portable, with display
Central unit connectivity: Wireless 433MHz (FSK) with receiver (up to 200 meters)
Wireless 2.4GHz with router
Central unit power supply: Wired with Type-C (cable included)
2 x 1.5V AA batteries (not included)
Display: 2.8" illuminated
Hysteresis: 0.5° C
Temperature measurement accuracy: 0.1° C
Temperature calibration: Yes, by APP and advanced settings
Temperature statistics: Yes, by APP
Weekly programing: Yes, up to 6 periods each day
Frost protection: Yes, initial status OFF
Child lock: Yes
Display parameters: Current temperature, set temperature, clock, current program, outdoor humidity, weather indicator
APP name: Tellur Smart

Amazon Alexa: Yes, compatible
Google Assistant: Yes, compatible
Siri Shorcuts: Yes, compatible
Wireless frequency: 2.4GHz
WiFi standard: IEEE 802.11b/g/n
Security: WPA-PSK/ WPA2-PSK /WPA/WPA2/WEP
Encryption type: WEP/TKIP/AES
Compatibility: Devices with Android 6 / iOS 11 or higher
Color: Black
Package includes:
1x Receiver
1x Central unit
1x Type-C cable 1 meter
2x pack of screws
Product dimensions:
Receiver: 86 x 86 x 26mm
Central unit: 86 x 118 x 24mm

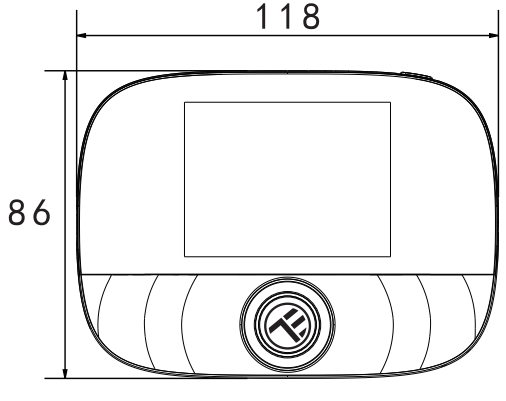
4. PRODUCT INSTALLATION

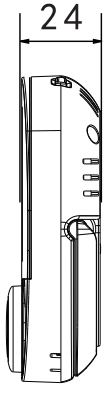
!!!Important notes and cautionary tips:

- Avoid mounting the device in a place where the temperature changes too much, such as heat/cold sources, air-outlet, etc.
- If you smell smoke, or hear high noise, from the device, turn off the power and unplug the power cable. Then contact the service center for assistance.
- This product product was designed for indoor use only.
- Make sure to switch off the power supply before installing or maintaining the product!
- To avoid the risk of fire or electrical shock, please make sure you install the product following its electrical rating (AC100-240V).
- To avoid wiring damage or abrasion, do not expose the wire to edges of metal or other sharp objects

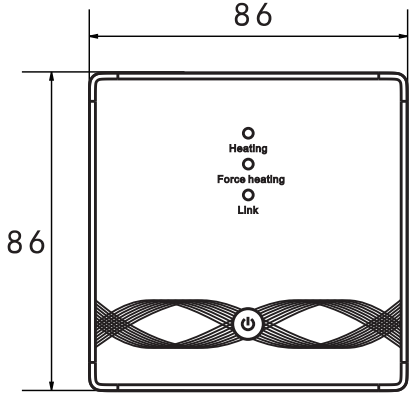
Dimensions (Unit: mm)

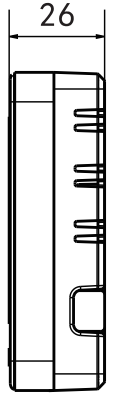
Central unit



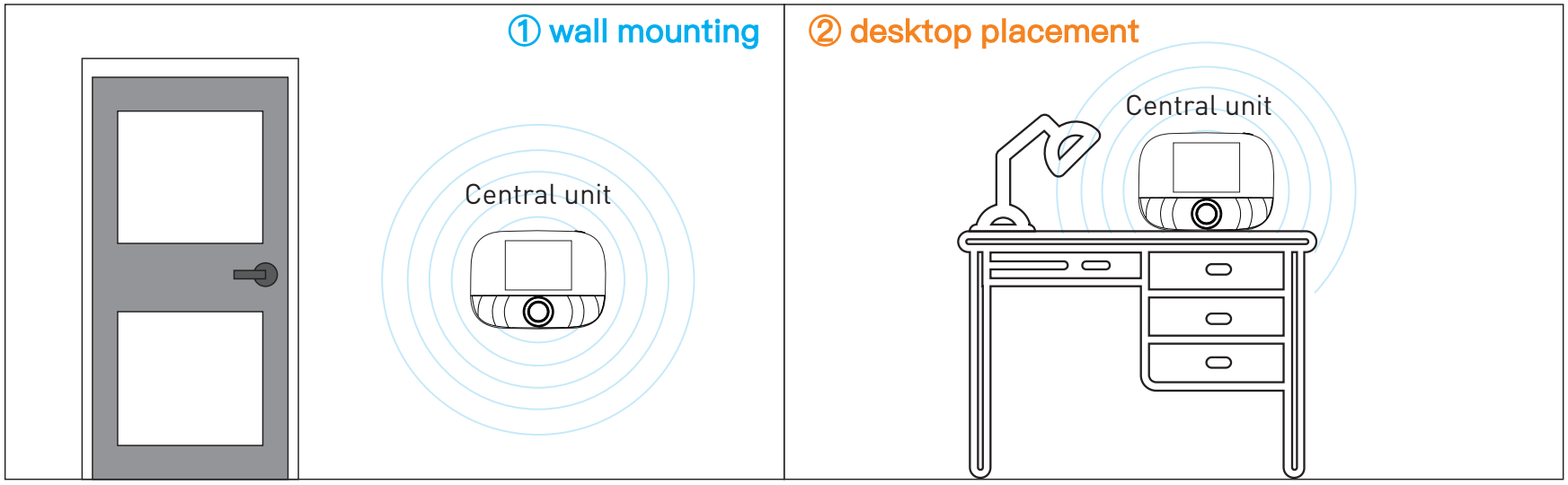


Receiver





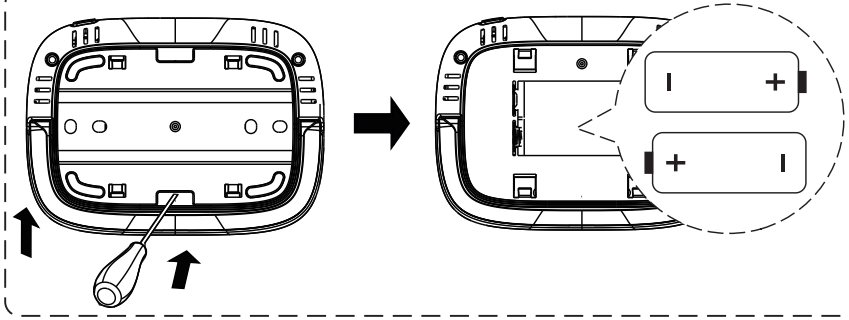
Central unit placement



Central unit installation

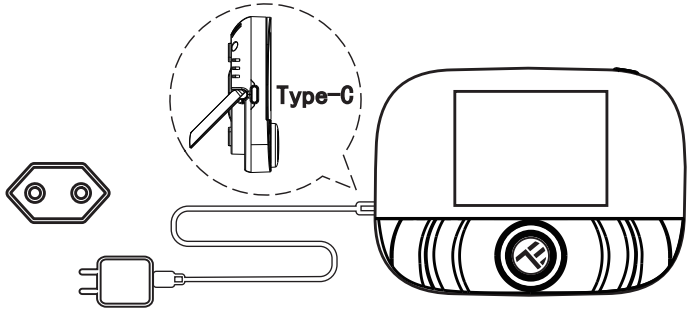
a. 2 x AA batteries

*Note
1. It is recommended to use new brand 1.5v AA batteries
2. Please ensure the correct polarity when installing the battery



1.Insert a screwdriver into the notch on the back of the central unit, pry open the base and the panel frame, and then put the battery into the battery compartment of the device.
2. After inserting the battery, close the back cover to complete the installation

b. USB powered (Type-C interface)



Use Type-C cable to power the device

Receiver installation

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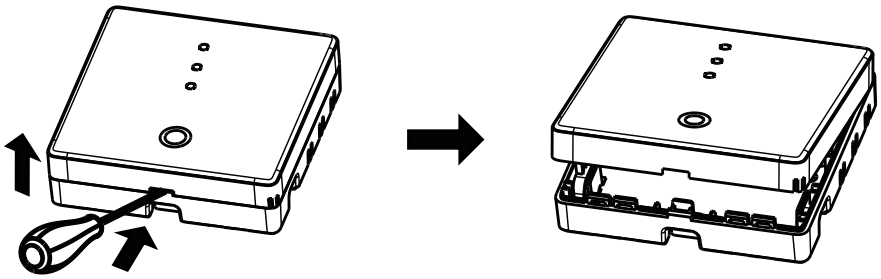
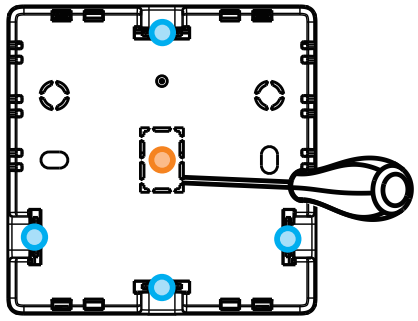


1. Release front cover by inserting a head screwdriver into the bottom crack.

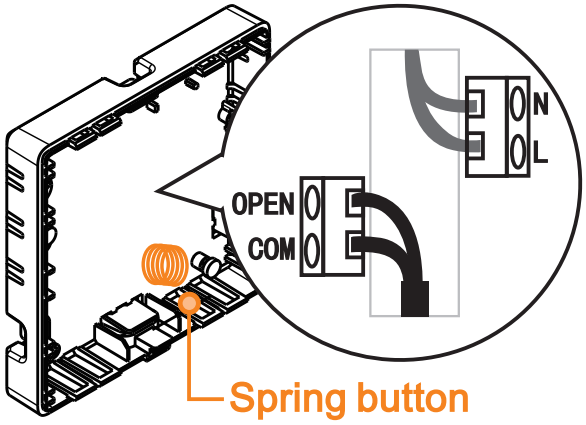


2. You can choose the wiring method

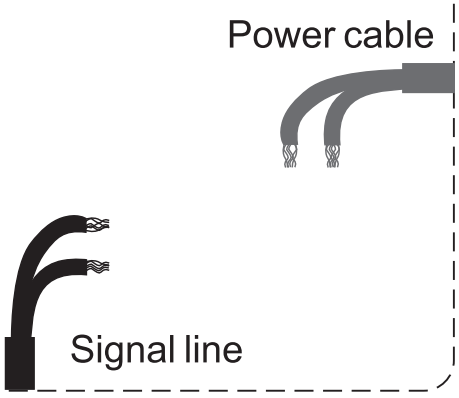
a. Exposed wiring: choose any one of the four directions, then use a flat-blade screwdriver to open along the dotted line

b. Concealed installation and routing: along the dotted line in the middle of the bottom shell, use a flat-blade screwdriver to open

3. Put the wire into the terminal and tighten it with a flat-blade screwdriver. After tightening the terminal screws, cover the upper cover to complete the installation.

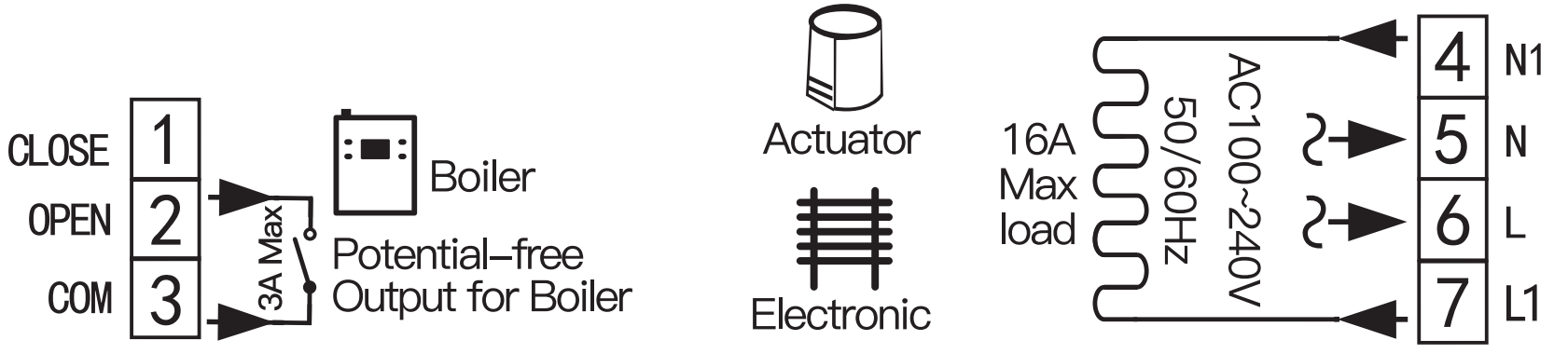


Note: The wire line should not touch the spring button, other wise it will affect the button touch function



Receiver electrical wiring diagram

The thermostat operates in full capacity in areas with the altitude of less 2500m above sea level. Power rating of external load should be less or equal to 80% rated power of the thermostat in areas with altitude of 2500m-to 4200m



Output (N1 , L1) is for :

① Thermal Actuator

② Electronic heating product

Pairing the receiver with the central unit (paired from factory)

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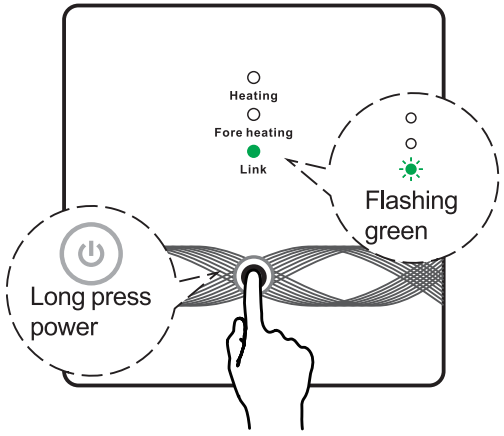
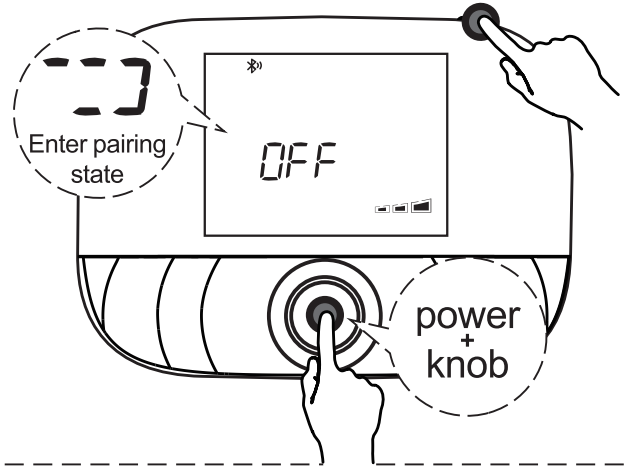
① Under power–off, press “ ⏻ ” for 3 seconds, when the green light “ ● ” flashes, the receiver enters the pairing state..

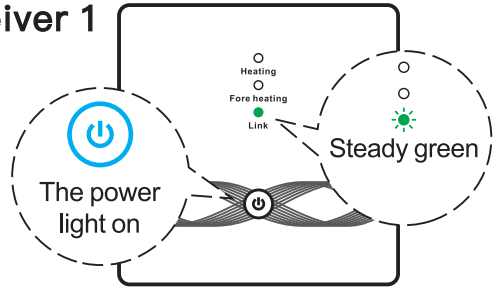


② Under power–off, press“ **power button** ” + “ **knob key** ” for 3 seconds, the thermostat enters the pairing state.

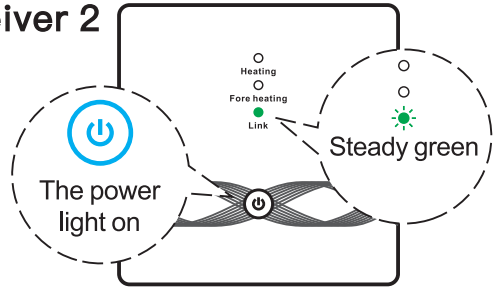


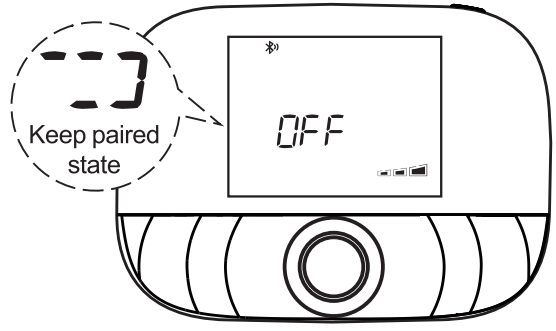
③When the receiver’s buzzer beeps once, and the power light “ ⏻ ” + the green light “ ● ” are always on, the pairing is successful.

RF Receiver 1



RF Receiver 2





RF Thermostat

Tip: Support one RF thermostat to pair with multiple RF receivers. After the pairing is successful, you need to short press the “power button” to exit the pairing mode

5. PRODUCT UTILIZATION

User routine operations

	Function	Steps
Central Unit	Power on/off	Press “power key” shortly to turn on/off the thermostat.
	Auto–mode	Press “knob key” for 3 seconds to edit auto–mode settings.
	Temp. control mode	Press “knob key” shortly to switch manual/auto mode.
	Temp. setting	Rotate “knob key” to change setting temperature by 0.5°C.
	Child–lock	Press “knob key” + “power key” for 3 seconds to activate child–lock.
	Time setting	Press “power key”for 3 seconds to set time.
	Backlight Control	Press “power key”fastly twice to backlight control.
	Pairing mode	Under power–off, press “knob key” + “power key” for 3 seconds to pairing mode.
	Wi–Fi setting	Under power–off, press “power key” for 3 seconds to Wi–Fi setting.
	Low power reminder	When the voltage is less than 2.3 V, the small icon of battery power flickers, it is recommended to replace the new battery as soon as possible before use.

Auto mode settings

Press “knob key” for 3 seconds to edit auto-mode setting.

Events		Symbols	Time		Temperature	
			Default value	Modify	Default value	Modify
Workdays	1		06:00	Rotate knob	20°C (68°F)	Rotate knob
	2		08:00		15°C (59°F)	
	3		11:30		15°C (59°F)	
	4		12:30		15°C (59°F)	
	5		17:00		22°C (72°F)	
	6		22:00		15°C (59°F)	
Weekends	1		08:00		20°C (68°F)	
	2		22:00		15°C (59°F)	

Central unit advanced settings (Usually for professional technicians)

Under power–off, press “Knod key” for 3 seconds to enter advanced setting mode, then repress “Knob key” to switch to next mode. Press “power button” to save and exit advanced setting mode.

Code	Meaning	Knob key “ ◎”	Default value
01	Temp. calibration	–9.9~9.9℃(–9~9℉)	–1℃
02	Temp. Dif.	0.5~10℃(1~10℉)	±1℃
03	Temp. upper limit	5~95℃(41~199℉)	50℃
04	Temp. lower limit	5~47℃(41~117℉)	5℃
05	Frost protection	ON: frost protection on OFF: frost protection off	OFF
06	Temperature unit	℃/℉	℃
09	Weekly programming setting	12345: 5/2 week mode 123456: 6/1 week mode 1234567: 7/0 week mode	12345
12	Child–lock	00: Child–lock inactivate when screen off; lock all when child–lock activate 01: Child–lock activate when screen off; lock all when child–lock activate 02: Child–lock activate when screen off; lock all except Fan Speed, Up and Down when child–lock activate 03: Child–lock activate when screen off; lock all except Power on/off when child–lock activate	00
13	Power–on–reset	00: Power OFF 01: Power ON 02: The last status before power loss	02
19	Reset	Press “◎”for 3 seconds to reset	/

Receiver operating instructions

Function	Steps	Display state
Power on/off	Press“ ⏻”shortly	Power light is always on/off
Pairing	Under power–off, press“ ⏻” for 3 seconds	“ 🟢”Green flashes quickly
Distribution network is successful	\	Buzzer beeps +“ ⏻”light is on + “ 🟢”green light is on
Forced output	Under power–off, Double click the“ ⏻”	“ 🔴”Red light on +“ 🟠”yellow light on
	Short press“ ⏻”to exit the forced output and return to the shutdown state	The“ ⏻”light goes out
Reset	Under power–off, press“ ⏻”for 3 seconds, After the green light flashes“ 🟢”, double–click the press“ ⏻” again	“ 🔴 🟠 🟢 ” lights flash once at the same time
External probe temperature limit temp setting	When powered on, press“ ⏻” for 3 seconds	“ ⏻”Power light flashes (No temperature limit, Default value)
	When the power light is flashing, short press“ ⏻” once	“ ⏻”Power light is flashing + “ 🟢” green light is on(30℃ temperature limit)
	When the power light is flashing, short press“ ⏻” twice	“ ⏻”Power light is flashing + “ 🟠” yellow light is on(40℃ temperature limit)
	When the power light is flashing, short three times press“ ⏻”	“ ⏻”Power light is flashing + “ 🔴” red light is on(55℃ temperature limit)
	When the power light is flashing, Long press“ ⏻”for 3 seconds	Save and exit External sensor temperature limit temperature setting

6.WIFI PAIRING USING TELLUR SMART APP

Important notes:

Mare sure your phone is connected to the 2.4GHz wireless network and you have access to WiFi password before you start the pairing procedure.

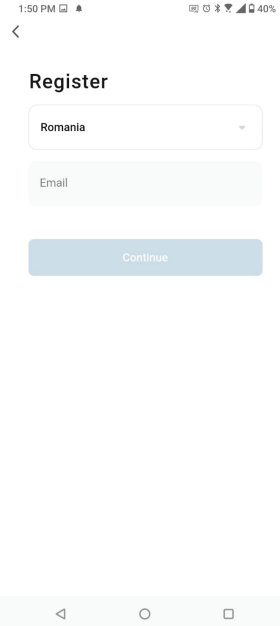
The app doesn't support WiFi 6 networks with 802.11ax standard. Please set the 2.4GHz WiFi network to 802.11b/g/n

We also recommend having the Bluetooth function activated for an easier pairing.

Pairing the device with APP

1.Download and install the Tellur Smart app, available for either iOS or Android devices

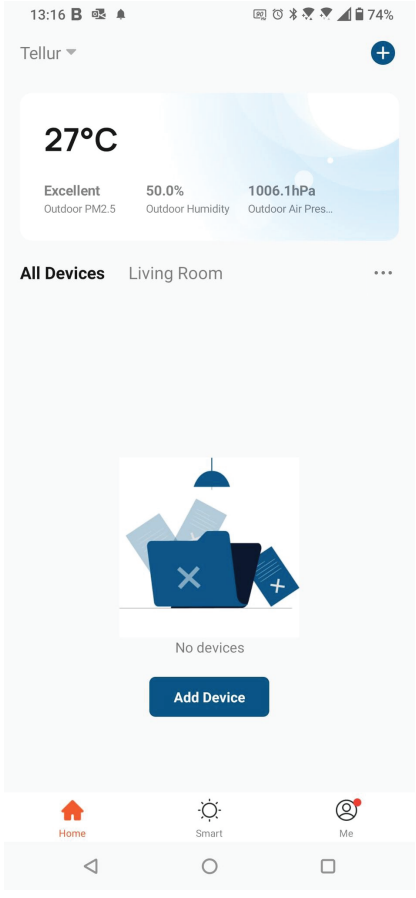
2. Once downloaded, the app will ask you to create an account (if you don't have any already). Enter your email, select the country you live in and create a password for your Tellur Smart account.

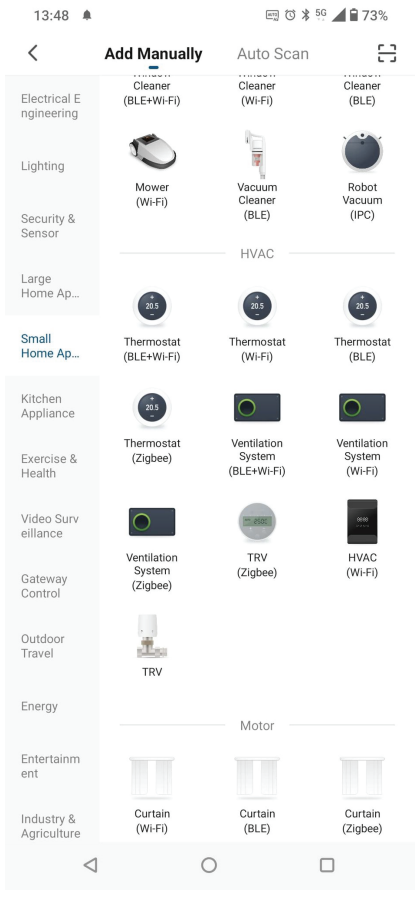


***Set up router

This device only supports 2.4GHz frequency band router, does not support 5GHz frequency band router. Please set the relevant parameters of the router before Wi-Fi configuration, Wi-Fi passwords do not include special characters such as ~! @#$%^&*(). When the device is being connected to the Wi-Fi, keep the mobile phone and device close to the router to speed up the configuration of the device.

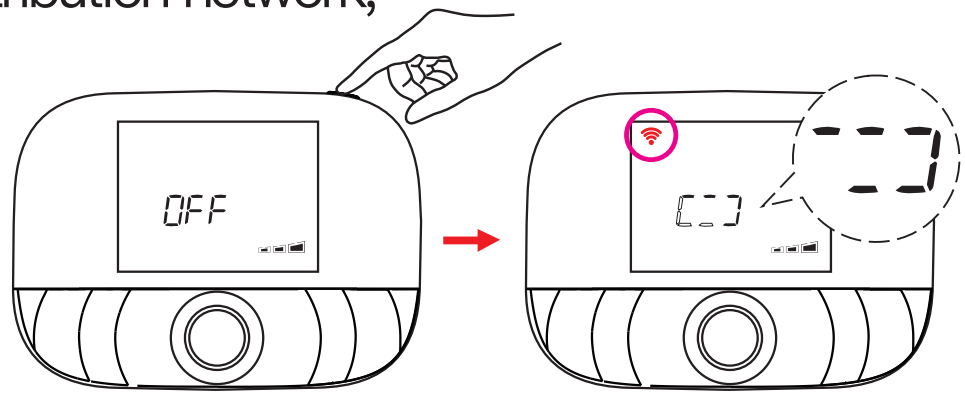
3. Open the Tellur Smart app and click “Add device” or “+” and then select “Small Home appliances” -> “Thermostat (Wi-Fi)”.





4.Activate pairing mode for central unit

① In the OFF state, long press the ”power button” for 3 seconds, when the screen flashes “ ” and “ ” , the thermostat Enter the state of distribution network;



Once Tellur Smart app is installed on your device and you have added your smart device to your app you will be able to control it.

7.FAILED TO ADD DEVICE?

- Make sure the device is powered on.
- Check the WiFi connection of your phone.
- Check if the device is in pairing mode. Reset your smart device to enter pairing mode.
- Check router or related: If you use a dual-band router, select the 2.4GHz network to add the device. You also need to enable the router's broadcasting function. Set encryption method as WPA2-PSK and authorization type as AES or set both on "auto".
- Check if the WiFi signal is strong enough. To maintain the signal strong, keep your router and the smart device as close as possible.

- Wireless mode should be 802.11.b/g/n (WiFi 6 protocol 802.11ax is not supported)
- Make sure you don't exceed the maximum number of registered devices supported by the app (150).
- Check if the router's MAC filtering function is enabled. If so, remove the device from the filter list and make sure the router is not prohibiting the device connection.
- Make sure the WiFi password entered in the app is correct.

Can I control the device with 2G/3G/4G network?

When adding the device for the first time, the device and the phone need to be connected to the same WiFi network. Once the device has been successfully paired with the Tellur Smart app, you can remotely control it via 2G/3G/4G networks.

How can I share my device with family?

Open Tellur Smart app, go to "Profile" -> "Device sharing" -> "Sharing sent", tap "Add sharing" and share the device with the added family members.

Notice - users must install the Tellur Smart app on their device in order to see shared devices.

How can I manage the devices shared by others?

Open App, go to "Profile" > "Device Sharing" > "Sharing Received", then you can find the devices shared by other users. To delete a shared device, swipe left.

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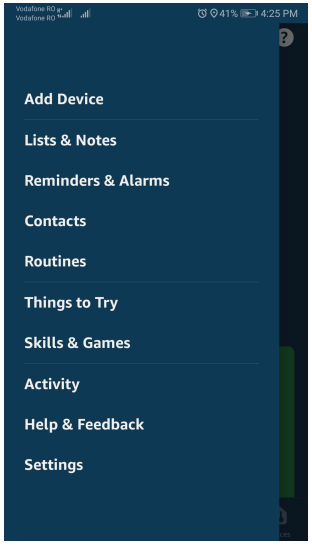
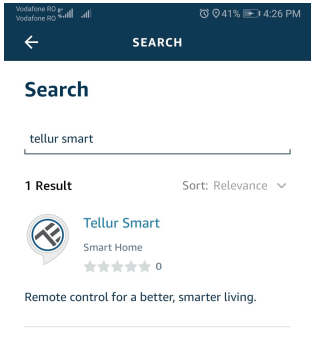
8. ALEXA INTEGRATION:

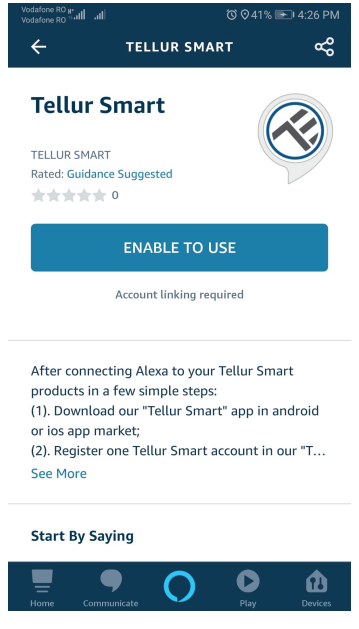
1. Go to Home menu on Alexa app.
2. Select "Skills" / "Skills & Games".





3. Type Tellur Smart in the search bar.

4. Select Tellur Smart and click "Enable" to activate Tellur Smart.
Enter your Tellur Smart account and password. Now you have finished the integration with Alexa.
Tellur Smart app is now skilled with Alexa and you can vocally control the devices added in Tellur Smart. Remember - if you rename your smart devices, use a simple name that Alexa can recognize.
To control your smart devices through Alexa, use simple and concise voice commands.



Here are some examples for Tellur Thermostat:

Alexa, set the thermostat temperature to 25 degrees”
“Alexa, turn on the thermostat”
“Alexa, what is the thermostat temperature ”

9. GOOGLE HOME INTEGRATION

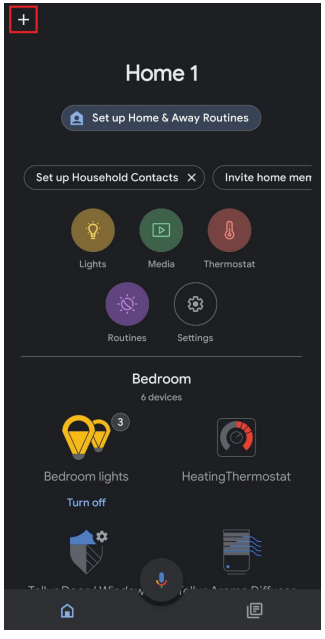
Before using Google Home to control your devices, make sure you meet the following conditions:

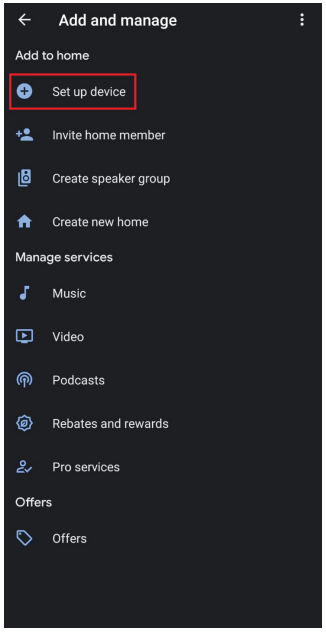
- You have a Google Home device or an Android device with Google Assistant.
- You have the newest version of Google Home app.
- You have the newest version of Google app (Android only).
- You have the Tellur Smart app and a related account.

Add devices in Tellur Smart app (refer to app instructions) – you can skip this part if you've already added some devices to your Tellur Smart account. Make sure your devices' names are easily recognizable.

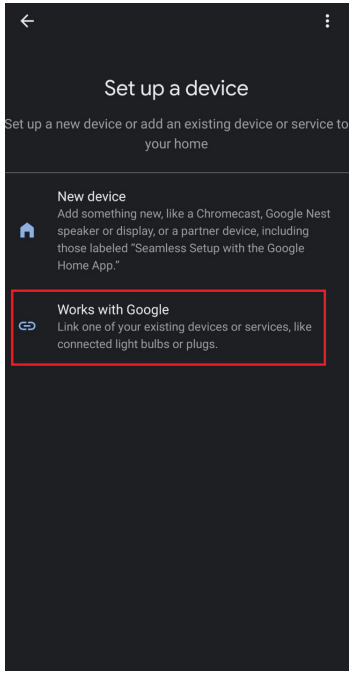
Link account in Home Control

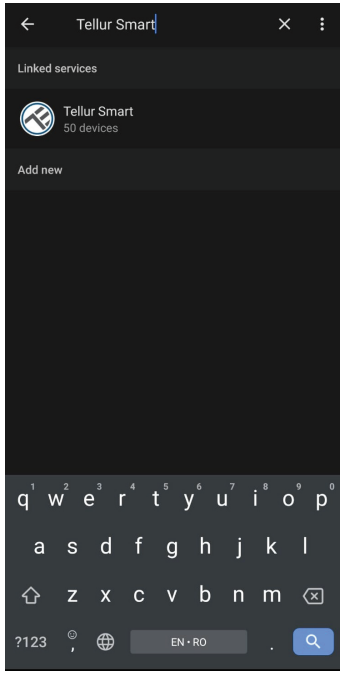
1.Go to Google Home's homepage and tap "+".





2. Hit the "Add new" button, enter Tellur Smart in the search bar and select the app from the list. Next, select your Tellur Smart account's region, enter your Tellur Smart account and password and tap "Link now". After you assign rooms for devices, your devices will be listed in the Home Control page.





Now you can control your smart devices through Google Home.
Here are some examples of commands for Tellur Thermostat:

”Ok Google, raise the temperature for thermostat by 2 degrees”
“Ok Google, turn of the thermostat”
“Ok Google, change the thermostat to Auto”
“Ok Google, set the thermostat to 22 degrees”

DISPOSAL AND RECYCLING INFORMATION

The crossed-out wheeled-bin symbol on your product, battery, literature or packaging reminds you that all electronic products and batteries must be taken to separate waste collection points
at the end of their working lives; they must not be disposed of in the normal waste stream with household garbage. It is the responsibility of the user to dispose of the equipment using a
designated collection point or service for separate recycling of electrical and electronic equipment waste (WEEE) and batteries according to local laws. Proper collection and recycling of your
equipment helps ensure EEE waste is recycled in a manner that conserves valuable materials and protects human health and the environment. Improper handling, accidental breakage,
damage, and/or improper recycling at the end of its life may be harmful for health and environment.