

Internet controlled thermostat, ZigBee





EGRFWIFIW

EGRFWIFIB

Quick Guide



Product Compliance

This product complies with the following EU Directives: 2014/30/EU, 2014/35/EU, 2014/53/ EU, 2011/65/EU

SAFETY INFORMATION:

Use in accordance with national and EU regulations. Use the device only as intended, keeping it in a dry condition. The product is for indoor use only. Please read the entire manual, before installation or use.

WARNING:

This product must be used with a ZigBee EGGW gateway (purchased separately). Thermostat programming is done by ENGO Smart app.

Product advantages:

Built-in Li-Ion 3,7V Battery

USB type C, 5V DC

5,0°C - 45,0°C

0.5°C

TPI or Histeresis (from ± 0.1 °C to ± 2 °C)

ZigBee 3.0 2,4GHz

Floor temp sensor, external air sensor, occupancy sensor IP30

90 x 90 x 14 mm



Built-in Li-Ion 3,7V Battery



Communication in the ZigBee 3.0 standard



A multitude of functions available from ENGO Smart / Tuya Smart application



S1-S2 Input for additional sensor



EGRFWIFI is a surface-mounted room thermostat which works over ZigBee technology. It has a built-in

humidity sensor and a minimum/maximum setpoint temperature limiting function. The EGRFWIFI has the

ability to work in heating or cooling modes. The unique feature of this thermostat is the possibility of wireless

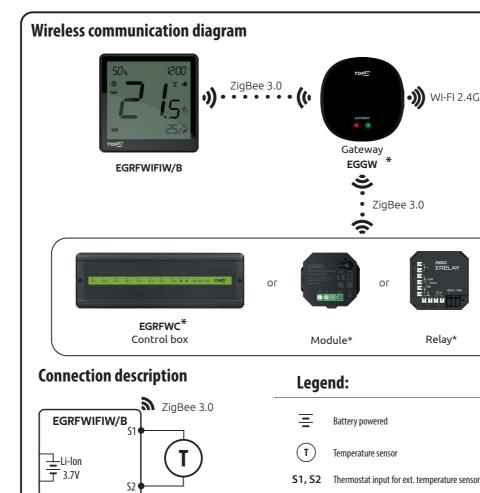
control over ENGO binding function. In order to have the ability to controll wirelessly, EGRFWIFI needs to be

used with ENGO Smart / TUYA Smart mobile application and EGGW internet gateway (sold separately). "ENGO

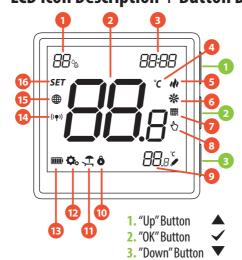
binding" function provides wireless and direct connection to the receivers (e.g. EGRFWC control box, module

or relay) over the EGGW gateway. After adding to the mobile app, thermostat offer more functions, e.g. push

ENGO binding function (devices connection in Online and Offline mode)



LCD Icon Description + Button Description



- 1. Current humidity reading
- **2.** Current/Setpoint temperature
- Clock

3

- **4.** Temperature unit
- **5.** Heating indicator (icon is animating when there is heating demand)

Connection with ZigBee 3.0 network

Connection with WiFi 2.4GHz network

•**)))** WI-FI 2.4GHz

Relav³

- **6.** Cooling indicator (icon is animating when there is cooling demand) 7. Schedule mode icon
- **8.** Temporary override mode
- **9.** External/Floor or Occupancy sensor
- **10.** Button lock
- 11. Holiday mode
- 12. Settings icon
- 13. Battery indicator
- 14. Receiver binding indicator
- 15. ZigBee network connection indicator
- **16.** Settings icon / temperature settings

Button description

Products sold separately

	Change the parameter value up		
•	Change the parameter value down		
	Manual/Schedule mode - short button press (Online mode)		
✓	Enther the installer parameters- hold 3 seconds		
	Turn OFF/ON thermostat - hold 5 seconds		
	Enter the pairing mode - hold 5 seconds		
$\blacktriangle + \blacktriangledown$	Enter binding mode - hold 5 seconds		
	Factory reset - hold until the FA message appears		
▲ + ✓	Lock/Unlock thermostat keys - hold 3 seconds		
▼+✓	Heating/Cooling mode change - hold 3seconds		

Installation thermostat in the app

Make sure your router is within range of your smartphone. Make sure you are connected to the Internet. This will reduce the pairing time of the device.

STEP 1 - DOWNLOAD ENGO SMART APP

Download the ENGO Smart app from Google Play or Apple App Store and install it on your smartphone.





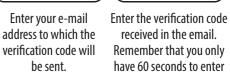


STEP 2 - REGISTER THE NEW ACCOUNT

To register a new account, please follow the steps below:



Click "Register" to create new account.

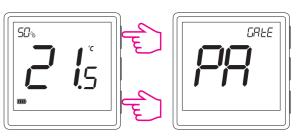


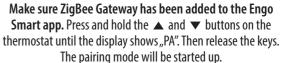
Then set the login password.

Set Password

the code!!

STEP 3 - CONNECT THE THERMOSTAT TO ZigBee







Thermostat counts the time back (180s).



Enter the gateway interface.



ao "Add devices".



Wait for the message "End" to appear on the thermostat screen.

Power supply Charging connector

Temperature range

Display temperature accuracy

Control algorithm

Communication S1/S2 multifunctional input

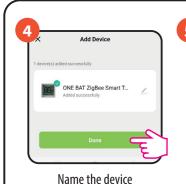
IP protection class

Dimension [mm]

Technical Informations

notifications or possibility of programming time schedules.

INTRODUCTION:



and click "Done"



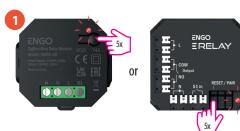


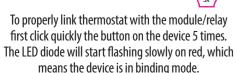
50% 12:00 **i**5

On the controller screen globe icon appeared stating that he has been he added to the ZigBee network.

Binding thermostat with the module/relay

Make sure that the module/relay and thermostat are in the same ZigBee network (they are added to the same gateway EGGW).







Release the keys, binding function process of linking thermostat with control box is active.



After successfull binding operation "End" message will be displayed. LED on the module will stop flashing.



On the EONE thermostat, hold ▲ and ▼ buttons until the "bind" message appears.



The "binding" process takes up to 300 seconds.



Both devices have been successfully linked. Thermostat displays the main screen, icon " ((中))" appeared on the screenindicating connection with the receiver (module/relay in this case).

ATTENTION:

If the binding process fails, it must be repeated taking into account the distances between devices, obstacles and local radio signal interferences.



Remember:

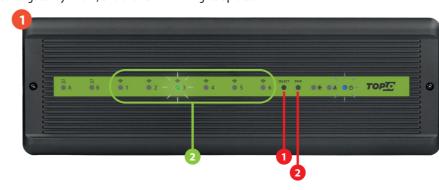
Radio range can be increased by Engo ZigBee repeaters.



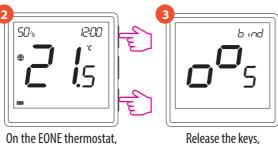
When the thermostat is binded with the module, the relay will turn off after 50 minutes, if the communication between the devices is lost.

Binding thermostat with the **EGRFWC** wireless control box

Make sure that the EGRFWC control box and thermostat are in the same ZigBee network (they are added to the same gateway EGGW) and the POWER LED lights up blue.

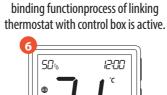


In order to correctly link thermostat with the control box, first select the zone in the control box with the SELECT button (1) (zone which you want to link with thermostat). The LED (2) will flash 3 times for the selected zone. Confirm your selection by clicking PAIR button (2). The LED (2) will flash green with the previously selected zone - binding process has started, it is active for 10 minutes and during this time you can link thermostat with the selected zone.



On the EONE thermostat, hold ▲ and ▼ buttons until the "bind"message appears.

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After successfull binding operation "End" message will be displayed.



Both devices have been successfully linked. Thermostat displays the main screen, icon "((\P))" appeared on the screen indicating connection with the receiver (EGRFWC in this case).



The "binding" process takes up to 300 seconds.

ATTENTION:

If the binding process fails, it must be repeated taking into account the distances between devices, obstacles and local radio signal interferences.



Remember:

Radio range can be increased by Engo ZigBee repeaters.

ATTENTION:

When the thermostat is binded with the module, the relay will turn off after 50 minutes, if the communication between the devices is lost.

Installer settings

To enter installer parameters press and hold ✓ button for 3 seconds.





Use ▲ or ▼. button to move between parameters. Enter the parameter by ✓. Edit the parameter using ▲ or ▼. Confirm the new parameter value with the ✓ button.

Installer parameters

Рхх	Function	Value	Desription	Default value
P01	Clock format	12h	12 hour	24h
	Clock format	24h	24 hour	2411
P02	11 /6 !: 6 ! .:	ili	Heating	111
	Heating/Cooling Selection	*	Cooling	
P03		TPIUFH	TPI for Underfloor Heating	TPI UFH for heating HIS 1.0 for cooling
		TPIRAD	TPI for Radiators	
		TPI ELE	TPI for Electrical Heating	
		HIS 0.2	SPAN +/-0,1°C	
		HIS 0.4	SPAN +/-0,2°C	
	Control algorithm	HIS 0.6	SPAN +/-0,3°C	
		HIS 0.8	SPAN +/-0,4°C	
		HIS 1.0	SPAN +/-0,5°C	
		HIS 2.0	SPAN +/-1,0°C	
		HIS 3.0	SPAN +/-1,5°C	
		HIS 4.0	SPAN +/-2,0°C	
P04	Offset temperature	-3.5°C do +3.5°C	If the thermostat indicates wrong temperature, you can correct it by max ± 3.5°C"	0℃
P05	"Minimum setpoint"	5°C-45°C	Minimum heating / cooling temperature that can be set	5℃
P06	"Maximum setpoint"	5℃-45℃	Maximum heating / cooling temperature that can be set	35℃
100	тампит жфот	1	Disable	33 0
		2	External sensor as a floor sensor	1
P07	S1/S2 Input	3	External sensor as an air sensor	
		4	Occupnacy sensor (ON/OFF volt free input)	
P08	Maximum floor temperature for heating (function active when P07=2)	5°C-45°C	In order to protect the floor, the heating will be turned off, when the temperature of the floor sensor rises above the maximum value.	35℃
P09	Minimum floor temperature for heating (function active when P07=2)	5℃-45℃	In order to protect the floor, the heating will be switched on, when the temperature of the floor sensor drops below the minimum value.	10°C
P10	Maximum floor temperature for cooling (function active when P07=2)	5°C-45°C	In order to protect the floor, cooling will be switched on, when the temperature of the floor sensor exceeds the maximum value.	15℃
P11	Minimum floor temperature for cooling (function active when P07=2)	5°C-45°C	In order to protect the floor, cooling will be turned off, when the temperature of the floor sensor drops below the minimum value	7℃
P12	Comfort warm floor	OFF Level 1 = 7min Level 2 = 11min Level 3 = 15min Level 4 = 19min Level 5 = 23min	This function helps to keep the floor warm, even if there is no heating demand from the room thermostat. This feature is available only for Heating Mode. User can select 5 levels of warm floor feature. Note that comfort warm floor function will activate heating for specified amount of time (in relation to Level setting choosen by user). Heating will be activated only if in the past 1 hour heating was OFF.	OFF
P13	Valve protection	ON	Function disabled	OFF
,		OFF	Function enabled	
P14	Backlight brightness	10% - 100%	Adjustable in the range from 10 to 100%	50%
P15	PIN Code for settings access	NO	Function disabled	NO
נו ו	i in code for settings access	PIN	Function enabled	110
P16	Require a PIN to unlock the keys every time	NO	Function disabled	NO
	(function active when P15=PIN)	YES	Function enabled	110
CLR	Clear settings factory reset	NO YES	No action Factory Reset	NO NO

Factory reset

To RESET Thermostat to factory settings, hold down the ▲ and ▼ buttons until the FA message appears. Then release the keys. Thermostat will restart, restore default factory settings and displays the home screen. The device will be removed from the ZiqBee network you will need to add/pair it again.





