

Product Compliance

This product complies with the following EU Directives: 2014/53/EU, 2016/65/EU 868.0 MHz - 868.6 MHz; <13dBm Wi-Fi 2,4 GHz

Please note!

This document is a brief manual of the installation and operation of the product and highlights its most important features and functions.

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.

INSTALLATION:

Installation must be performed by a qualified person with appropriate electrical qualifications, in accordance with the standards and regulations in force in a given country and in the EU. The manufacturer is not responsible for non-compliance with the instructions.

! WARNING:

For the entire installation, there may be additional protection requirements, which the installer is responsible for.

Introduction:

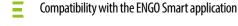
A wireless set for controlling standard heating devices (e.g. gas boilers). It is characterized by: simplicity of construction, intuitive operation using the keys and a large and legible display. The built-in Wi-Fi module enables easy and guick configuration of the device in the ENGO Smart mobile application. The controller can be shared with many users, has a scheduling function and a PIN lock. Factory paired and ready to work.

Product Features:

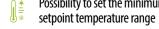
Wi-Fi 2.4 GHz communication standard



Wireless communication in the 868 Mhz standard



Possibility to set the minimum and maximum



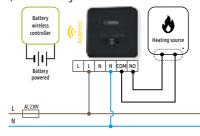
HEATING/COOLING function

Technical specifications

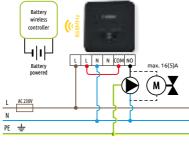
Thermostat power supply	2xAA batteries
Receiver power supply	230V AC 50 Hz
Max load of the receiver	16(5)A
Receiver output signal	COM / NO (voltage free)
Temperature control range	5,0°C - 35,0°C
Control algorithm	TPI lub Hysteresis (±0,2°C to ±2°C)
Control algorithm	Wireless, 868 Mhz + Wi-Fi 2,4 GHz
Dimensions [mm]	Transmitter: 80 x 80 x 22 Receiver: 96 x 96 x 27



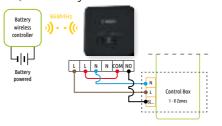
a) Connection diagram of the receiver to the heat source



b) Connection diagram of the receiver to the pump / actuator



c) Connection diagram of receiver to control box



Wall mounting of the regulator



Attach the mounting plate to wall.



Insert the batteries.



Attach the thermostat to the plate.

Receiver

Receiver's switches description:

LEFT SWITCH

- Receiver ON
- 2. Receiver OFF

RIGHT SWITCH

- 3. MANUAL Receiver works in manual mode (according to the left switch)
- 4. AUTO Receiver works in AUTO mode (according to the thermostat's command)



LED indications in the receiver

The status of the receiver is indicated by two LEDs. These are LEDs with the following colors:

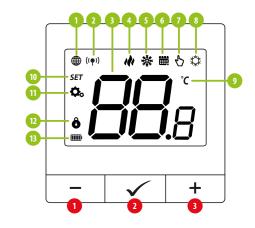


- red (upper one),
- green (upper one),
- blue (upper one),
- pink (upper one)
- orange (lower one).

A detailed explanation of the meaning of the LEDs can be found in the table below:

	DESCRIPTION
The <mark>red</mark> LED flashes	The red LED diode flashes - Receiver and thermostat are prepared for installation in the app. LED always flashes red: - immediately after connecting the receiver to the power supply, if the thermostat is not added to the app - after running the parameter "APP" -> YES (installer parameters) - after removing thermostat from the app (device automatically entered pairing mode)
The <mark>red</mark> LED steady	The red LED diode is steady - E20i Wi-Fi has not been installed in the app and it is working in Offline mode. It means also app pairing mode timed out (pairing with app must be done within 10 minutes after enabling pairing mode).
The green LED is solid	The receiver is connected to a router but there is no connection to Internet (router is offline)
The green LED flashes	The receiver lost connection with a router (router is off)
The blue LED is solid	The receiver is connected to a router that has Internet access (router is online)
The blue LED flashes	The receiver was paired but lost communication with the thermostat due to out of range or low battery in the thermostat. When receiver lost communication with thermostat it starts flashing after 15 minutes.
The orange LED is solid	In automatic mode, the receiver received a heating / cooling signal from the thermostat or the receiver was started in manual mode (left switch ON, right switch MANUAL)
The orange LED flashes	The receiver is in the pairing mode and is looking for a signal from the thermostat (then you must activate the "SYNC" parameter in the thermostat).
The orange LED is off	The receiver does not send a heating / cooling signal.
The pink LED is on	Update process started. To increase the chance of success of the update - immediately after the pink diode appears, click any thermostat's button to turn on backlight

LCD icon description



- 1. Button -
- 2. Button \checkmark
- 3. Button +
- 1. Internet connection
- 2. Send a signal (pairing)
- 3. Current/Setpoint temperature 4. Heating indicator
- 5. Cooling indicator
- 6. Schedule mode icon
- 7. Temporary override mode 8. FROST (anti-freeze mode)
- 9. Temperature unit
- **10.** Settings icon / temperature settings
- 11. Settings icon
- 12. Button lock
- 13. Battery indicator

Button functions

+	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 (standby)
+&-	Enter the pairing mode - hold until the PA message appears, then release the keys
	Pairing the transmitter with the receiver - hold until the SY message, then release the keys
	Factory reset - hold until the FA message appears, then release the keys
+&✓	Lock/Unlock thermostat keys - hold 3 seconds
-&✓	Heating/Cooling mode change - hold 3seconds







Installation of 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. Use only Wi-Fi 2,4GHz network

STEP 1 - DOWNLOAD ENGO SMART APP

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











will be sent.

Then set the login

password.

Powered By

STEP 2 - REGISTER THE NEW ACCOUNT

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



Click "Register" to create new account.





Enter the verification code received in the email. Remember that you only have 60 seconds to enter the code!



After installing the app and creating an account:



On your mobile device, make sure the ENGO Smart has access to permissions (Location, Bluetooth, Nearby devices). Then turn on Bluetooth and Location. Connect to 2.4GHz Wi-Fi network to which you want to assign the device.

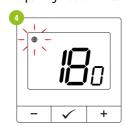


Connect the receiver to the power supply. When first powered up, the red led will start flashing, which means that devices are ready to be added to the application. Go to step 3 (adding devices in the app). If the red LED on the receiver is not flashing, proceed with the next steps.





Press and hold the - & + buttons for approx. 5 seconds until the display shows "PA". Then release the keys. The pairing mode will start.



The Thermostat counts the time back (180s).



In the app, select:



"Add Device".

After finding the thermostat, go "Add".



Select the Wi-Fi network in which the thermostat will operate and enter the password of this network.

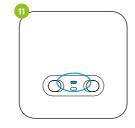


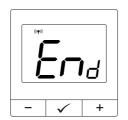
Wait for the app to configure the thermostat with the selected Wi-Fi network.



21.0

The thermostat has been installed and displays the main interface.





When the blue LED on the receiver will light up, it means the device has been correctly added to the application and is now connected to the Internet.



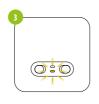
A globe icon appeared on the LCD.

Pairing process with the receiver

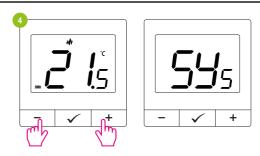
PLEASE NOTE! THERMOSTAT IS ALREADY PAIRED WITH THE RECEIVER!







If you want to re-pair the receiver and thermostat with each other and then add it to the application, make sure that the receiver is disconnected from the power supply, and the switches on it are in the ON and AUTO positions. Then connect the receiver to the power supply and wait a few seconds. Next, move the left switch to the OFF position and back to the ON position with a guick motion. The orange LED will start blinking, which will confirm that the receiver has entered the pairing mode.



Press and hold the - & + buttons for approx. 5 seconds until the display shows "SY". Then release the keys.



The thermostat started to send a signal ((*)) to find the receiver and started the countdown with the number 300 (sec). The pairing process may take up to 300 seconds.



When the orange LED stops blinking, the devices have been paired on a new frequency.





Thermostat displays the main

screen, icon $((\bullet))''$.

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

PLEASE NOTE!

If the devices remain unpaired after 10 minutes (e.g. no antenna icon on the controller, the receiver does not respond to the heating signal from the controller), the pairing process must be repeated, taking into account the distances between the devices, obstacles and interference.

Installer settings

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





Use - or + button to move between parameters. Enter the parameter by \checkmark . Edit the parameter using - or +. Confirm the new parameter value with the \checkmark button.

Factory reset

Installer parameters

Function

Heating/Cooling Selection

Control

algorithm

(in Cooling mode TPI algorithm is

unavailable)

Offset

temperature

Relay type

Minimum

setpoint

Maximum

setpoint

PIN Code

PIN Code value

Require a PIN to

unlock the keys

every time (Active when

P07=PIN)

Restoration default

value

P02

P03

P04

P07

P08

Value

*

TPI UFH

TPI RAD

TPI ELE

HIS 0.4

HIS 0.8

HIS 1.2

HIS1.6

HIS 2.0

HIS 3.0

HIS 4.0

-3.5°C to

+3.5℃

NO

20,5℃-

000-xxx

YES

Default

HIS 0.4

Description

Heating

Coolina TPI for Underfloor

Heating

TPI for Radiators

TPI for Electrical

Heating

SPAN +/-0,2°C

SPAN +/-0,4°C

SPAN +/-0,6°C

SPAN +/-0.8°C

SPAN +/-1,0°C

SPAN +/-1,5℃

SPAN +/-2,0°C

If the thermostat

indicates wrong

temperature, you

can correct it by

±3.5℃

Normally Open

type of relay

Normally Closed type of relay

Minimum heating /

that can be set

Maximum heating

cooling temperature

that can be set

Function disabled

Function enabled

User PIN

Function disabled

Function enabled

35℃

000

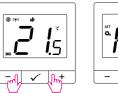
NO

5°C - 20°C | cooling temperature

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 app you will need to add it again.



After the reset, the devices are still paired.