



ENGEO Controls EONE230W Internet Controlled Thermostat User Guide

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Internet controlled thermostat, ZigBee



Quick Guide

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Product Compliance

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

SAFETY INFORMATION:

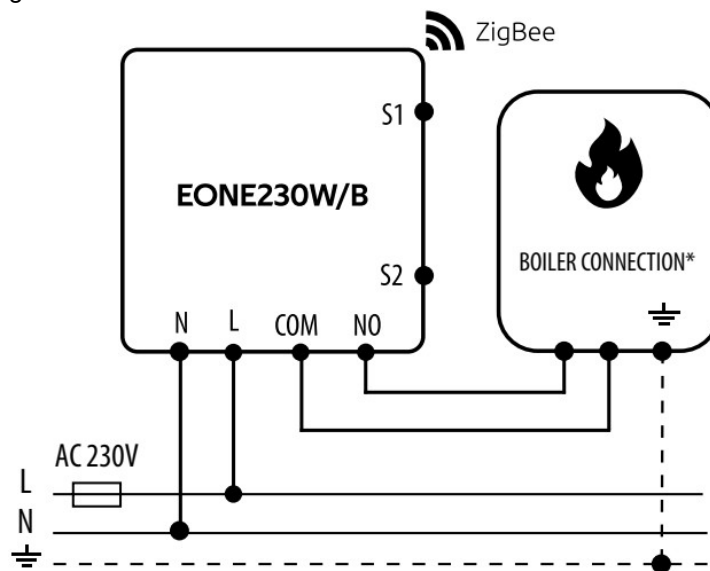
Use in accordance with national and EU regulations. Use the device only as intended, keeping it in a dry condition. The product is for indoor use only. Please read the entire manual, before installation or use.

Product advantages:

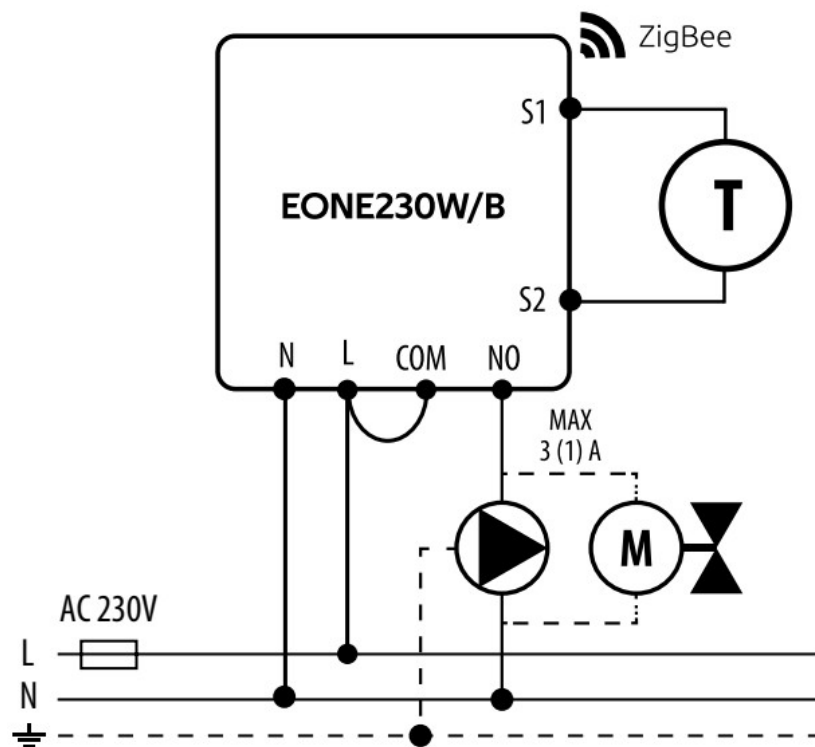
	Power Supply 230V AC
	Communication in the ZigBee 3.0 standard
	A multitude of functions available from ENGO Smart / Tuya Smart application
	S1-S2 Input for additional sensor
	ENGO binding function (devices connection in Online and Offline mode)
	Maximum and minimum temperature settings

Connection description

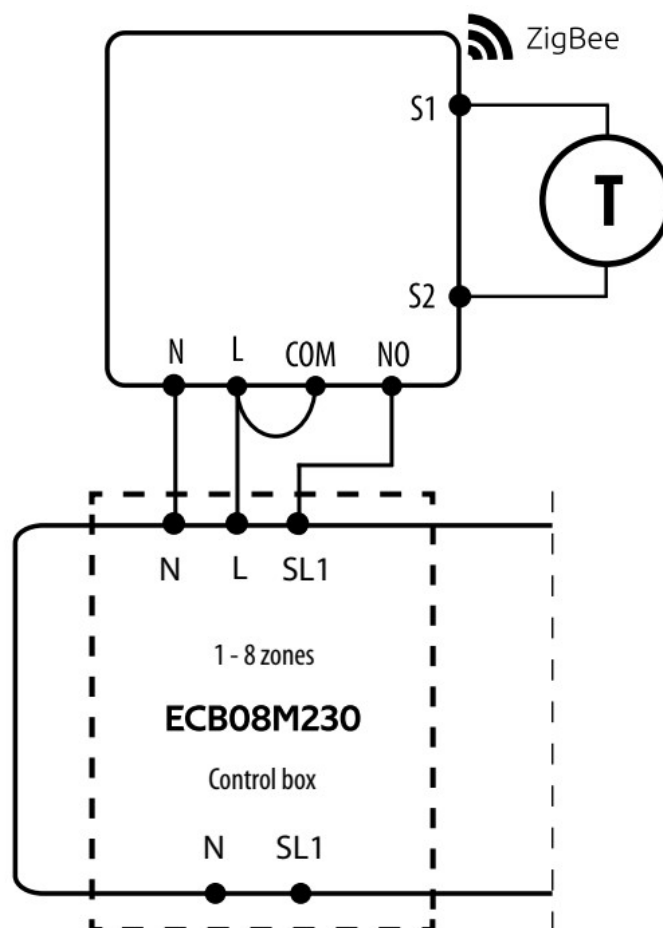
a) Connection diagram for gas boiler:



b) Connection diagram to pump / actuator:



c) Connection diagram to the control box:



Legend:

	Boiler connection* – Boiler's contacts for ON/OFF thermostat (according to the boiler's instructions)
	Pump
	Valve actuator
	Temperature sensor
L, N	230V AC power supply
COM, NO	Voltage-free output
S1, S2	Input terminals
SL1	230V AC voltage input
	Fuse

INTRODUCTION:

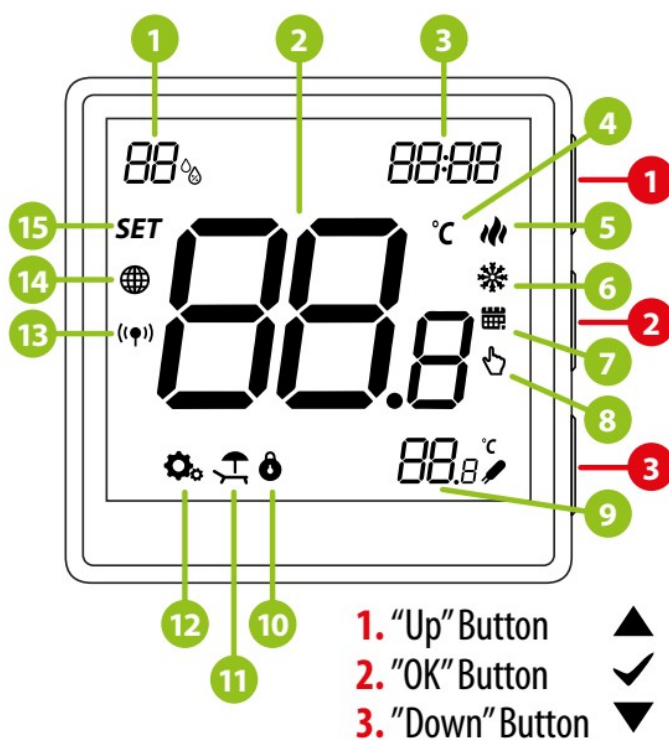
EONE230 is a flush-mounted room thermostat which works over ZigBee technology. It has a built-in humidity sensor and a minimum/maximum setpoint temperature limiting function. The EONE230 has a programmable change of the relay type and the ability to work in heating or cooling modes. The unique feature of this thermostat is the possibility of wireless control over ENGO binding function and wired control of devices that are connected directly to thermostat (e.g. wired control of heating boiler). In order to have the ability to controll wirelessly,

EONEBAT needs to be used with ENGO Smart / TUYA Smart mobile application and EGATEZB internet gateway (sold separately). „ENGO binding” function provides wireless and direct connection to the receivers (e.g. ECB62ZB control box, EMODZB module or EREL1ZB12A relay) over the EGATEZB gateway. EONE230 can also work as standalone thermostat connected by wires to the controlled device (without EGATEZB internet gateway). After adding to the mobile app, thermostat offer more functions, e.g. push notifications or possibility of programming time schedules.

Technical specifications

Power supply	230V AC 50 Hz
Max. load	3(1)A
Temperature range	5,0°C – 45,0°C
Display temperature accuracy	0,5°C
Control algorithm	TPI or Histeresis (from $\pm 0,1^{\circ}\text{C}$ to $\pm 2^{\circ}\text{C}$)
Communication	ZigBee 3.0 2,4GHz
S1/S2 multifunctional input	Floor temp sensor, external air sensor, occupancy sensor
Output control	COM / NO (Volt-free)
IP protection class	IP30
Dimension [mm]	90 x 90 x 34 mm (13 mm after mounting in electrical box Φ 60)

LCD Icon Description + Button Description



1. Current humidity reading
2. Current/Setpoint temperature
3. Clock
4. Temperature unit

5. Heating indicator (icon is animating when there is heating demand)
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. Receiver binding indicator
14. ZigBee network connection indicator
15. Settings icon / temperature settings

Button description

▲	Change the parameter value up
▼	Change the parameter value down
✓	Manual/Schedule mode – short button press (Online mode)
	Enter the installer parameters- hold 3 seconds
	Turn OFF/ON thermostat – hold 5 seconds
▲ + ▼	Enter the pairing mode – hold 5 seconds
	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.



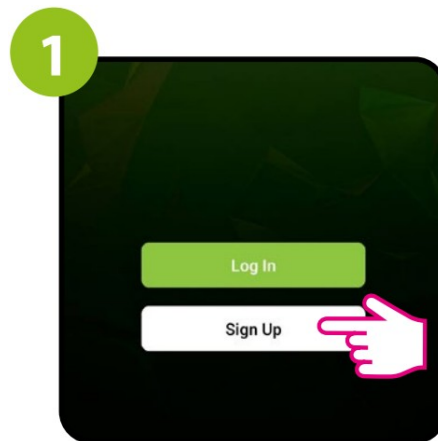
<https://play.google.com/store/apps/details?id=com.engo.smartlife>



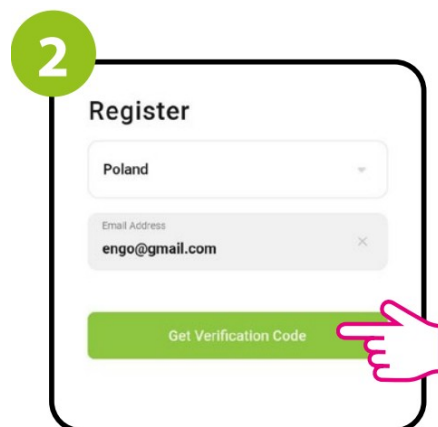
<https://apps.apple.com/us/app/engo-smart/id1606693444>

STEP 2 – REGISTER THE NEW ACCOUNT

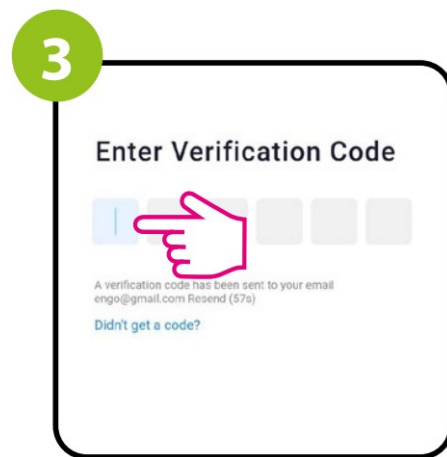
To register a new account, please follow the steps below:



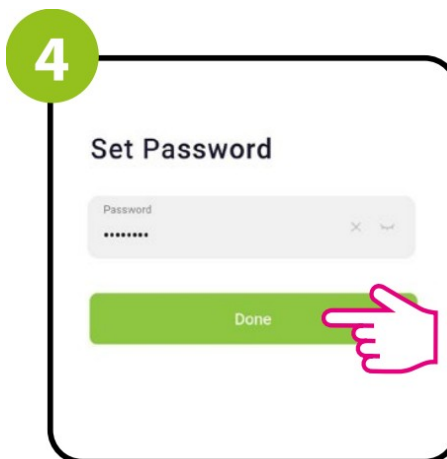
Click „Register” to create new account.



Enter your e-mail address to which the verification code will be sent.

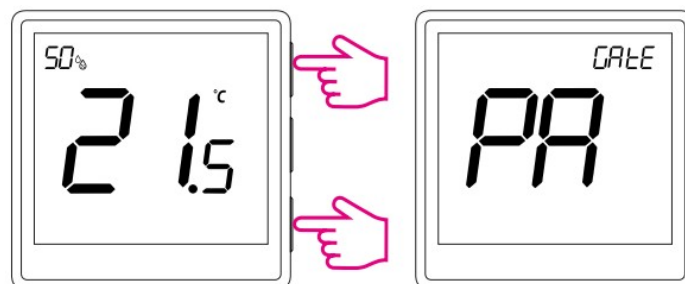


Enter the verification code received in the email. Remember that you only have 60 seconds to enter the code!!



Then set the login password.

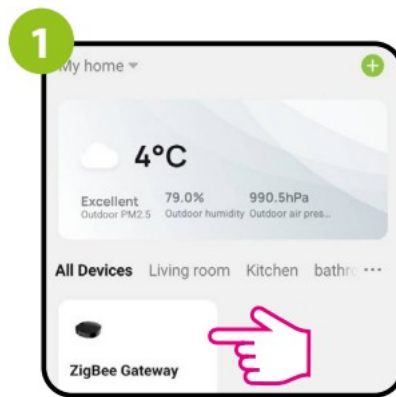
STEP 3 – CONNECT THE THERMOSTAT TO ZigBee



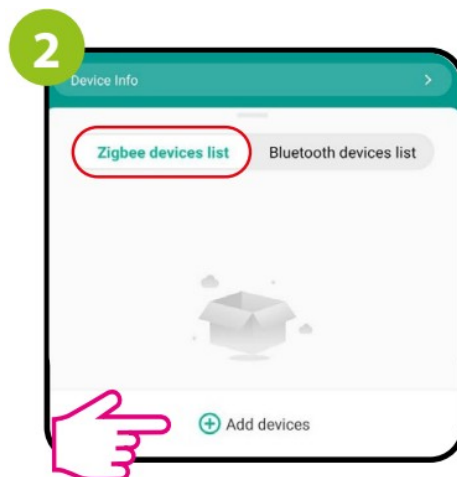
Make sure ZigBee Gateway has been added to the Engo Smart app. Press ▲ and ▼ hold the and buttons on the thermostat until the display shows „PA“. Then release the keys. The pairing mode will be started up.



Thermostat counts the time back (180s).



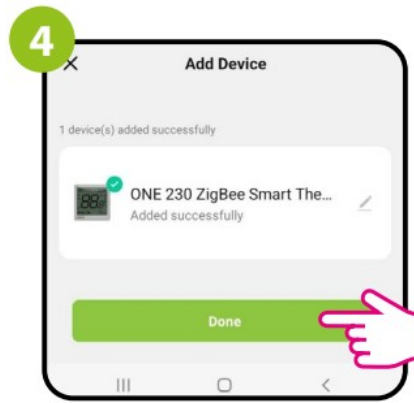
Enter the gateway interface.



In „Zigbee devices list” go „Add devices”.



Wait for the message “End” to appear on the thermostat screen.



After finding the device, go „Done”



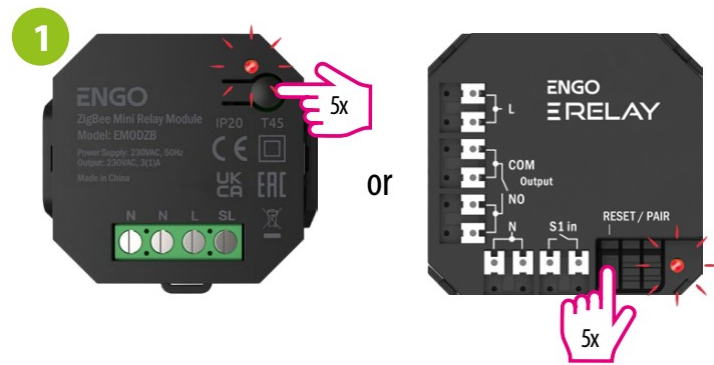
The thermostat has been installed and displays the main interface.



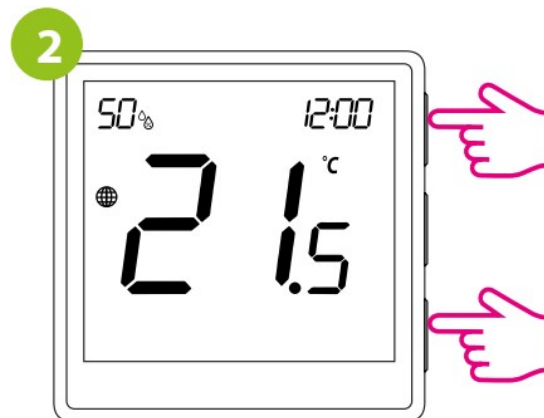
On the controller screen globe icon appeared stating that he has been he added to the ZigBee network.

Binding thermostat with the module/relay

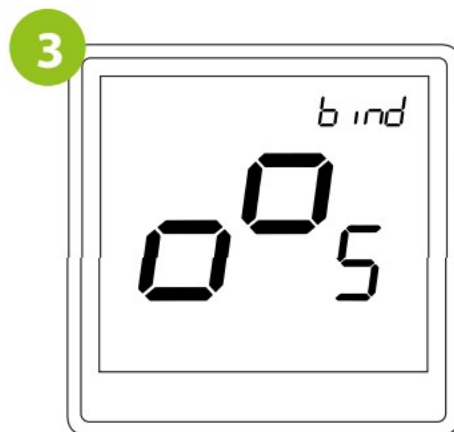
Make sure that the module/relay and thermostat are in the same ZigBee network (they are added to the same gateway EGATEZB).



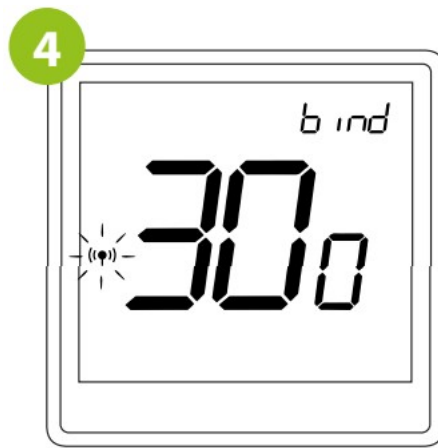
To properly link thermostat with the module/relay first click quickly the button on the device 5 times. The LED diode will start flashing slowly on red, which means the device is in binding mode.



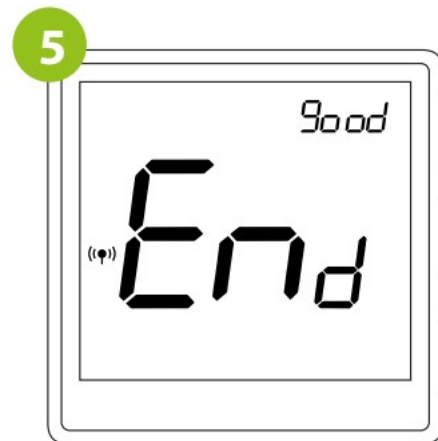
On the EONE thermostat, hold ▲ and ▼ buttons until the “bind” message appears.



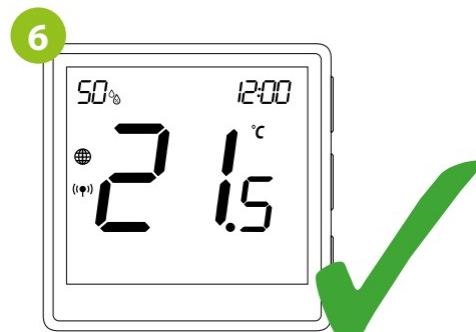
Release the keys, binding function process of linking thermostat with control box is active.



The “binding” process takes up to 300 seconds.



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



Both devices have been successfully linked. Thermostat displays the main screen, icon “ (💡) ” appeared on the screen indicating 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.

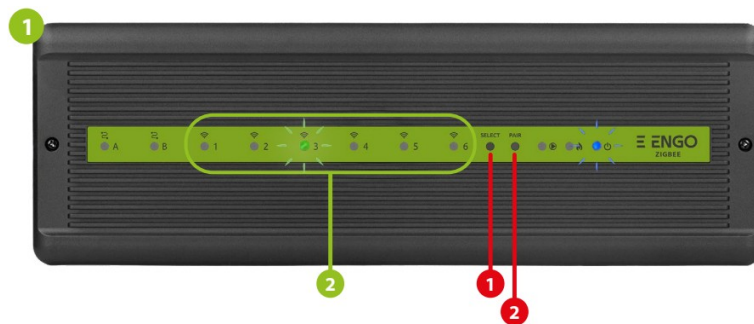


Remember:

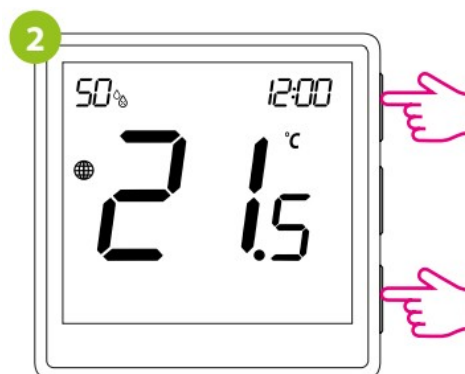
Radio range can be increased by Enigo ZigBee repeaters.

Binding thermostat with the ECB62ZB wireless control box

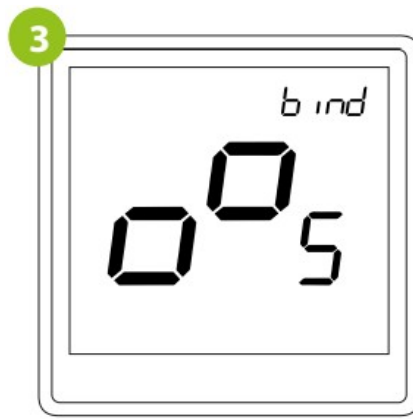
Make sure that the ECB62ZB control box and thermostat are in the same ZigBee network (they are added to the same gateway EGATEZB) and the POWER LED lights up blue.



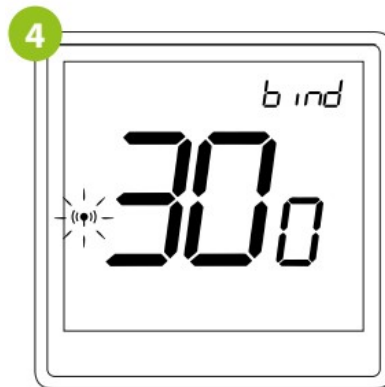
In order to correctly link thermostat with the control box, first select the zone in the control box with the SELECT button (1) (zone which you want to link with thermostat). The LED (2) will flash 3 times for the selected zone. Confirm your selection by clicking PAIR button (2). The LED (2) will flash 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.



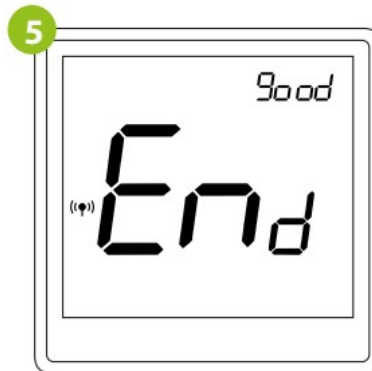
On the EONE thermostat, hold ▲ and ▼ buttons until the “bind”message appears.



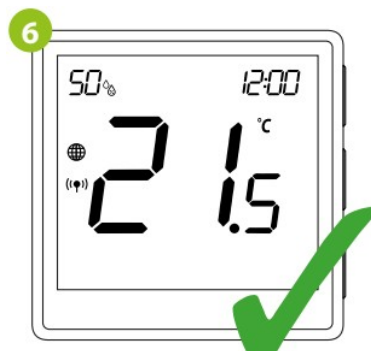
Release the keys, binding function process of linking thermostat with control box is active.



The “binding” process takes up to 300 seconds.



After successfull binding operation „End” message will be displayed.



Both devices have been successfully linked. Thermostat displays the main screen, icon “



ATTENTION:

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

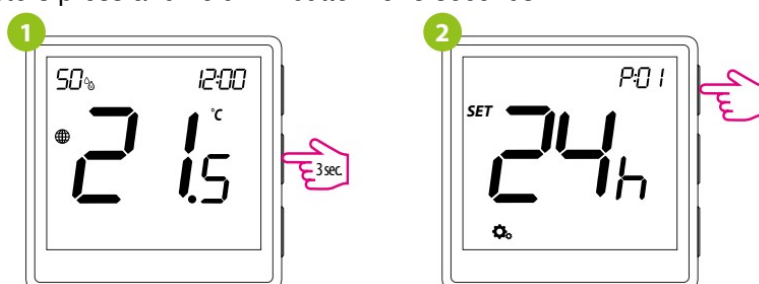


Remember:

Radio range can be increased by Engo ZigBee repeaters.

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

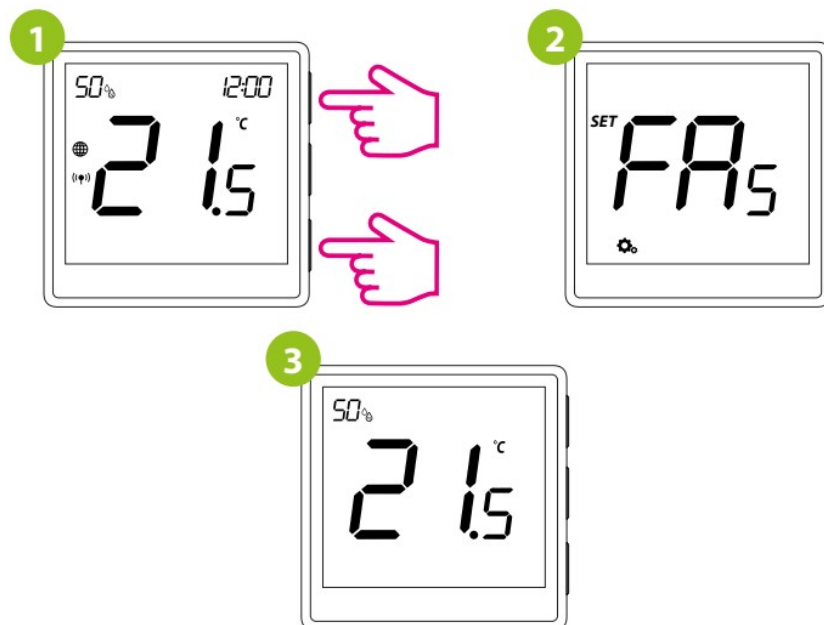
Pxx	Function	Value	Desription	Default value
P01	Clock format	12h	12 hour	24h
		24h	24 hour	
P02	Heating/Cooling Selection		Heating	
			Cooling	
		TPI UFH	TPI for Underfloor Heating	

P03	Control algorithm	TPI RAD	TPI for Radiators	TPI UF H for heating HIS 1.0 for cooling
		TPI ELE	TPI for Electrical Heating	
		HIS 0.2	SPAN +/-0,1°C	
		HIS 0.4	SPAN +/-0,2°C	
		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°C
P05	"Minimum setpoint"	5°C – 45°C	Minimum heating / cooling temperature that can be set	5°C
P06	"Maximum setpoint"	5°C – 45°C	Maximum heating / cooling temperature that can be set	35°C
P07	S1/S2 Input	1	Disable	1
		2	External sensor as a floor sensor	
		3	External sensor as an air sensor	
		4	Occupancy 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°C
P09	Minimum floor temperature for heating (function active when P07=2)	5°C – 45°C	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°C
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°C
		OFF		

P12	Comfort warm floor	Level 1 = 7min	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 chosen by user). Heating will be activated only if in the past 1 hour heating was OFF.	OFF
		Level 2 = 11 min		
		Level 3 = 15 min		
		Level 4 = 19 min		
		Level 5 = 23 min		
P13	Valve protection	ON	Function disabled	OFF
		OFF	Function enabled	
P14	Internal relay	NO	Relay type NO-COM	NO
		NC	Relay type NC-COM	
		OFF	Relay disabled	
P15	Backlight brightness	10% – 100%	Adjustable in the range from 10 to 100%	50%
P16	PIN Code for settings access	NO	Function disabled	NO
		PIN	Function enabled	
P17	Require a PIN to unlock the keys every time (function active when P16=PIN)	NO	Function disabled	NO
		YES	Function enabled	
CLR	Clear settings factory reset	NO	No action	NO
		YES	Factory Reset	

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, will restore the default factory settings and display the main screen. If the regulator was added to the gate and the ZigBee network, it will be removed from it and you will need to add / pair it again.



Ver. 7.4

Release date: I 2024

Soft:

ZigBee: v1.0.12

MCU: v2.0.9

Distributor:

QL CONTROLS Sp z o.o. Sp. k.

43-262 Kobielice

4 Rolna St.

Poland

Producer:

Engo Controls S.C.

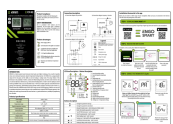
43-262 Kobielice

4 Rolna St.

Poland

www.engocontrols.com

Documents / Resources



[ENGO Controls EONE230W Internet Controlled Thermostat](#) [pdf] User Guide
EONE230W, EONE230B, EONE230W Internet Controlled Thermostat, EONE230W, Internet C
ontrolled Thermostat, Controlled Thermostat, Thermostat

References

- [ENGO Controls - Sterowanie ogrzewaniem](#)
- [User Manual](#)

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