

time schedules.

Technical specifications

Power supply

Max. load Temperature range

Display temperature accuracy

Control algorithm

Communication

S1/S2 multifunctional input

Output control

IP protection class

Dimension [mm]

Product Compliance

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

SAFETY INFORMATION:

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:



Communication in the ZigBee 3.0 standard



ENGO Smart / Tuya Smart application



S1-S2 Input for additional sensor

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



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.

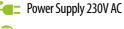
ECB62ZB control box, EMODZB module or EREL1ZB12A relay) over the EGATEZB gateway. EONE230 can also work

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

settings

Use in accordance with national and EU





230V AC 50 Hz

3(1)A

5,0°C - 45,0°C

0,5℃

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

ZigBee 3.0 2,4GHz

Floor temp sensor, external air sensor, occupancy sensor COM / NO (Volt-free)

IP30

90 x 90 x 34 mm (13 mm after mounting in electrical box Φ 60)



Maximum and minimum temperature

LCD Icon Description + Button Description

Connection description

a) Connection diagram for gas boiler:

EONE230W/B

COM

c) Connection diagram to the control box:

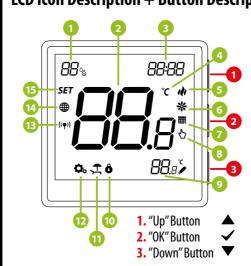
L SL1

1 - 8 zones

ECB08M230

N SI1

BOILER CONNECTION



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

8

(M)

(T)

L, N

COM, NO

S1, S2

SL1

- Temperature unit
- Heating indicator (icon is animating when there is heating demand)

b) Connection diagram to pump / actuator:

EONE230W/B

COM

Legend:

Valve actuator

Temperature sensor

230V AC power supply

Voltage-free output

230V AC voltage input

Input terminals

Boiler connection* - Boiler's contacts for ON/OFF thermostat

- 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

A	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
\triangle + \blacktriangledown	Enter binding mode - hold 5 seconds
	Factory reset - hold until the FA message appears
▲ + ✓	Lock/Unlock thermostat keys - hold 3 seconds
V +	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:



to create new account.

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

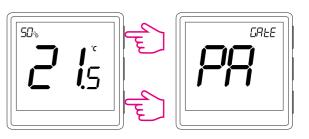


Then set the login password.

Set Password

have 60 seconds to enter the code!!

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).



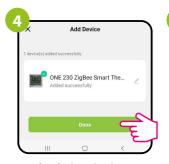
Enter the gateway interface.

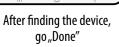


ao "Add devices".



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







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.



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 **a** and **v** 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 " ((♠)) " 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.

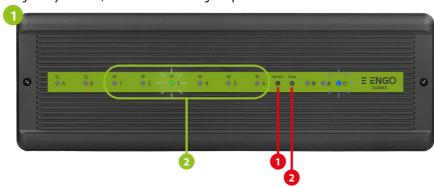


Remember:

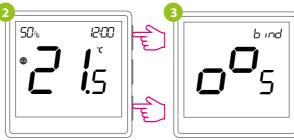
Radio range can be increased by Engo ZigBee repeaters.

Binding thermostat with the **ECB62ZB** wireless control box

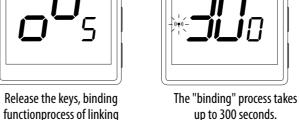
Make sure that the ECB62ZB control box and thermostat are in the same ZiqBee network (they are added to the same gateway EGATEZB) and the POWER LED lights up blue.



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.



functionprocess of linking thermostat with control box is active.



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

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Both devices have been successfully linked. Thermostat displays the main screen, icon " ((•)) " appeared on the screen indicating connection with the receiver (ECB62ZB 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:

b ind

Radio range can be increased by Engo ZigBee repeaters.

Installer parameters

Рхх	Function	Value	Desription	Defa valı
P01	di tr	12h	12 hour	
	Clock format	24h	24 hour	24
P02		ili	Heating	1/1
	Heating/Cooling Selection	*	Cooling	
		TPI UFH	TPI for Underfloor Heating	
		TPIRAD	TPI for Radiators	
		TPIELE	TPI for Electrical Heating	
		HIS 0.2	SPAN +/-0,1°C	
P03		HIS 0.4		TPI UFH for heatin HIS 1.0 fo cooling
	Control algorithm	HIS 0.6	SPAN +/-0,2°C SPAN +/-0,3°C	
	Control algorithm		·	
		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℃do+3.5℃	If the thermostat indicates wrong temperature, you can correct it by max ± 3.5°C"	0°
P05	"Minimum setpoint"	5℃-45℃	Minimum heating / cooling temperature that can be set	5⁰
P06	"Maximum setpoint"	5°C-45°C	Maximum heating / cooling temperature that can be set	35°
P07		1	Disable	1
	C1/C3 lauret	2	External sensor as a floor sensor	
	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°
P10	Maximum floor temperature for cooling (function active when P07=2)	5℃-45℃	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°
		OFF		
		Level 1 = 7min	This function helps to keep the floor warm, even if there is no heating	
P12		Level 2 = 11min	demand from the room thermostat. This feature is available only for	
	Comfort warm floor	Level 3 = 15min	Heating Mode. User can select 5 levels of warm floor feature. Note that comfort warm floor function will activate heating for specified amount	nt OFF
		Level 4 = 19min	of time (in relation to Level setting choosen by user). Heating will be	
		Level 5 = 23min	activated only if in the past 1 hour heating was OFF.	
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%	509
P16	PIN Code for settings access	NO	Function disabled	NO
1 10	i in couc for settings access	PIN	Function enabled	INC
P17	Require a PIN to unlock the keys every time	NO	Function disabled	NO NO
	(function active when P16=PIN)	YES	Function enabled	INC
CLD	Cloar settings factor	NO	No action	N/
CLR	Clear settings factory reset	YES	Factory Reset	NC

Installer settings

To enter installer parameters press and hold \checkmark 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.

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.





