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App Store

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Producer:

Engo Controls sp z o.o. sp. k

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Poland

www.engocontrols.com

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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.

WARNING:

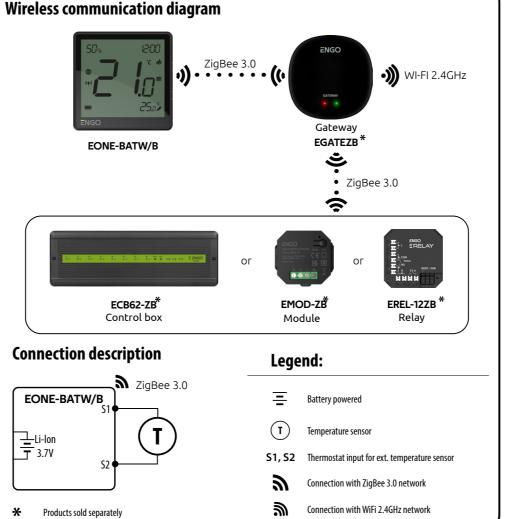
This product must be used with a ZigBee gateway (purchased separately). Thermostat programming is done by ENGO Smart app.

Product advantages:



- 0 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 ENGO binding function (devices connection 3 in Online and Offline mode)



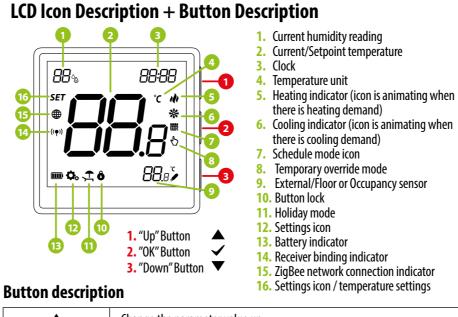
INTRODUCTION:

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EONE-BAT 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 EONE-BAT 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, EONE-BAT needs to be used with ENGO Smart / TUYA Smart mobile application and EGATE-ZB internet gateway (sold separately). "ENGO binding" function provides wireless and direct connection to the receivers (e.g. ECB62-ZB control box, EMOD-ZB module or EREL-12ZB relay) over the gateway. After adding to the mobile app, thermostat offer more functions, e.g. push notifications or possibility of programming time schedules.

Technical Informations

Power supply	Built-in Li-Ion 3,7V Battery
Charging connector	USB type C, 5V DC
Temperature range	5,0°C - 45,0°C
Display temperature accuracy	0,5°C
Control algorithm	TPI or Histeresis (from $\pm 0,1^{\circ}$ C to $\pm 2^{\circ}$ C)
Communication	ZigBee 3.0 2,4GHz
S1/S2 multifunctional input	Floor temp sensor, external air sensor, occupancy sensor
IP protection class	IP30
Dimension [mm]	90 x 90 x 14 mm



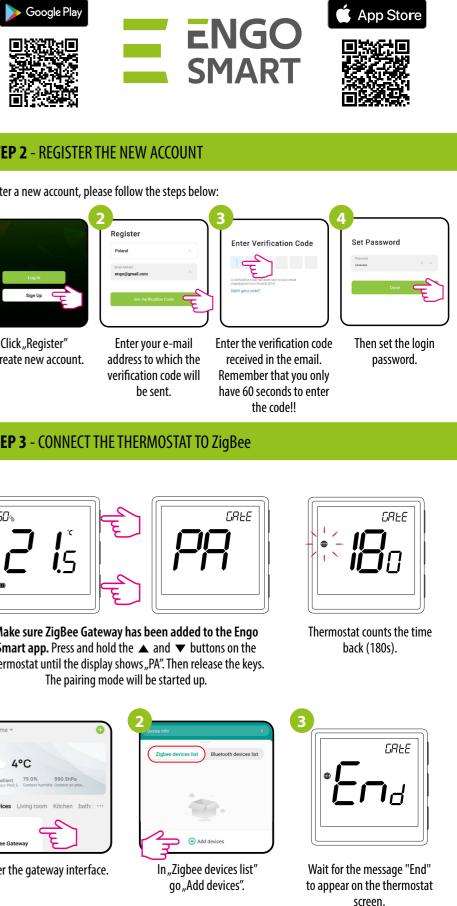
	Change the parameter value up	
▼	Change the parameter value down	
~	Manual/Schedule mode - short button press (Online mode)	
	Enther the installer parameters- hold 3 seconds	
	Turn OFF/ON thermostat - hold 5 seconds	
▲+▼	Enter the pairing mode - hold 5 seconds	
	Enter binding mode - hold 5 seconds	
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

Installation thermostat in the app

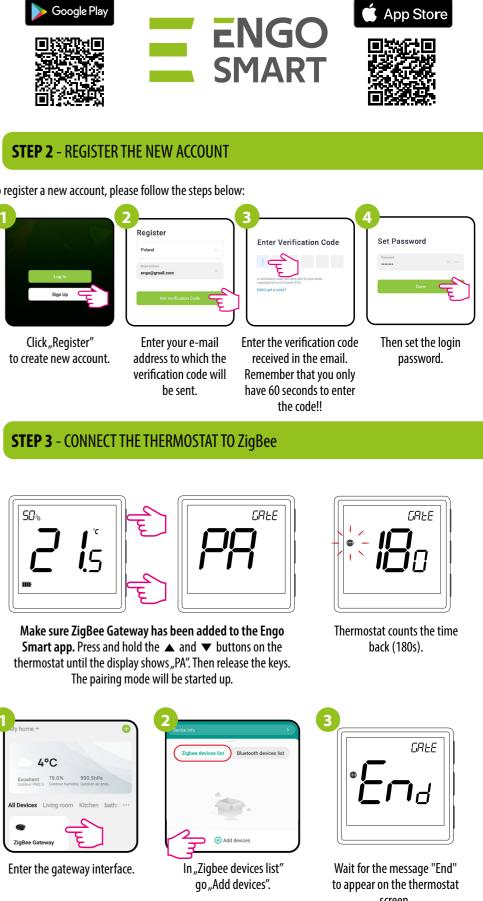
Make sure your router is within range of your smartphone. Make sure you are connected to the Internet. This will reduce the pairing time of the device.

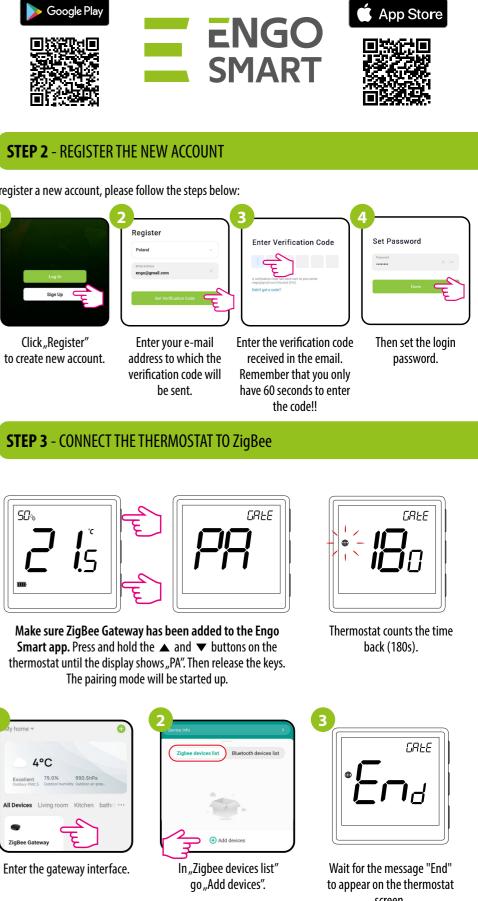
STEP 1 - DOWNLOAD ENGO SMART APP

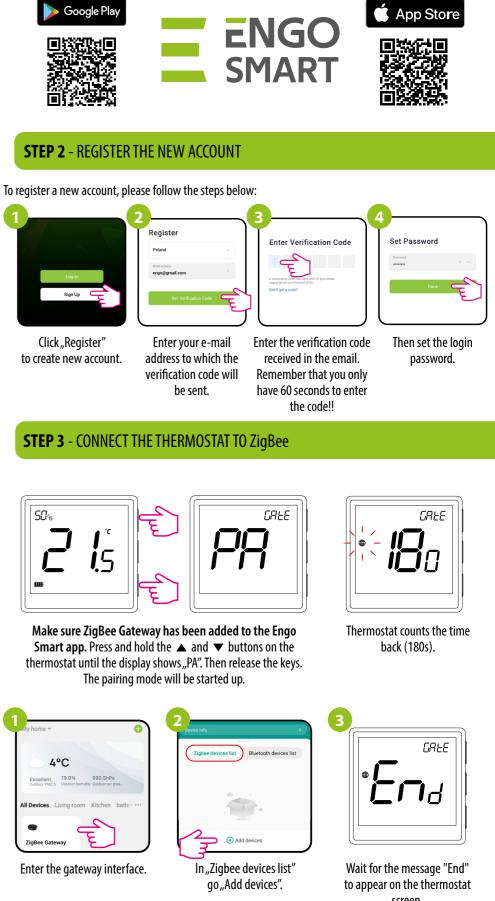
Download the ENGO Smart app from Google Play or Apple App Store and install it on your smartphone.

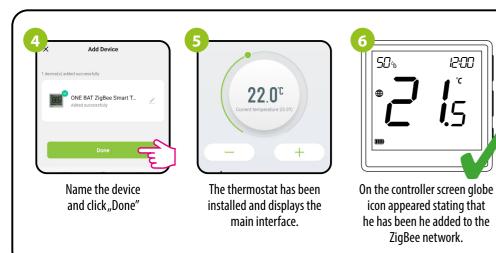












Binding thermostat with the module/relay

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



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.

ATTENTION:

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

Remember:

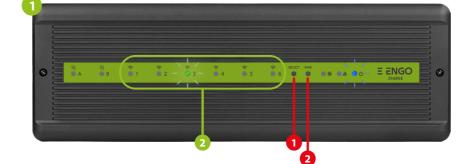
Radio range can be increased by Engo ZigBee repeaters.

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.

Binding thermostat with the ECB62-ZB wireless control box

Make sure that the ECB62-ZB control box and thermostat are in the same ZigBee network (they are added to the same gateway) and the POWER LED lights up blue.





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.

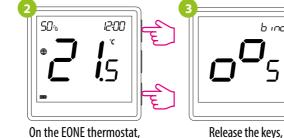
binding functionprocess of linking

thermostat with control box is active.

12:00

i5

bind



hold \blacktriangle and \checkmark buttons until the "bind" message appears.



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

ATTENTION:



50%

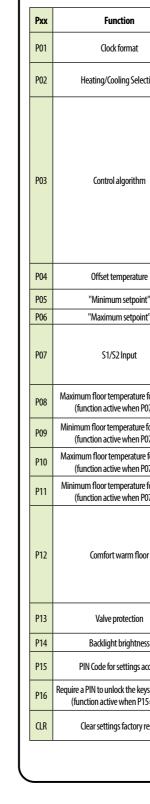
successfully linked. Thermostat displays the main screen, icon " $((\mathbf{\Phi}))$ " appeared on the screen indicating connection with the receiver (ECB62ZB in this case).

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 \checkmark button for 3 seconds. 12:00 P:0 I **i**5 **E**3sec

Use \blacktriangle or $\mathbf{\nabla}$. button to move between parameters. Enter the parameter by \checkmark . Edit the parameter using \blacktriangle or $\mathbf{\nabla}$. Confirm the new parameter value with the \checkmark button.

Installer parameters



bind

The "binding" process takes

up to 300 seconds.

ATTENTION:

If the binding process fails, it

must be repeated taking into

devices, obstacles and local

radio signal interferences.

account the distances between

Remember:

Radio range can be

increased by Engo

ZigBee repeaters.

Factory reset

To RESET Thermostat to factory settings, hold down the \blacktriangle and \triangledown 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 ZigBee network you will need to add/pair it again.





12:00

i5

On the EONE thermostat, hold **A** and **V** buttons

until the "bind" message appears.

Both devices have been successfully linked. the receiver (module/relay in this case).



Thermostat displays the main screen, icon " $((\mathbf{p}))$ " appeared on the screenindicating connection with

	Value	Desription	Default value
	12h	12 hour	24h
	24h	24 hour	
ction –	ı l ı	Heating	ılı
	*	Cooling	
	TPI UFH	TPI for Underfloor Heating	TPI UFH for heating HIS 1.0 for cooling
	TPI RAD	TPI for Radiators	
	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	
F	HIS 4.0	SPAN +/-2,0°C	
e	-3.5℃do+3.5℃	If the thermostat indicates wrong temperature, you can correct it by max $\pm 3.5^\circ \mbox{C''}$	0°C
t"	5℃-45℃	Minimum heating / cooling temperature that can be set	5℃
t"	5℃-45℃	Maximum heating / cooling temperature that can be set	35℃
1 2 3		Disable	55 0
		External sensor as a floor sensor	1
		External sensor as an air sensor	
	4	Occupracy sensor (ON/OFF volt free input)	
for heating 07=2)	5℃-45℃	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℃
for heating 07=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
for cooling 07=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°C
for cooling 07=2)	5℃-45℃	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		
ŀ	Level 1 = 7min	This function helps to keep the floor warm, even if there is no heating	OFF
or	Level $2 = 11$ min	demand from the room thermostat. This feature is available only for	
	Level $3 = 15$ min	Heating Mode. User can select 5 levels of warm floor feature. Note that comfort warm floor function will activate heating for specified amount	
	Level $4 = 19$ min	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.	
	ON	Function disabled	OEE
ľ	OFF	Function enabled	OFF
ss	10% - 100%	Adjustable in the range from 10 to 100%	50%
	NO	Function disabled	NO
ccess	PIN	Function enabled	
ys every time 5=PIN)	NO	Function disabled	NO
	YES	Function enabled	
reset	NO	No action	NO
	YES	Factory Reset	



