

Directives: 2014/30/EU, 2014/35/EU, 2014/53/ EU, 2011/65/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:



Communication in the ZigBee 3.0 standard



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





in Online and Offline mode)



ONE230 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 ONE230 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, ONEBAT 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. ONE230 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

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)

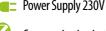
settings

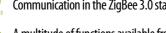
Product Compliance

This product complies with the following EU

SAFETY INFORMATION:

Use in accordance with national and EU







S1-S2 Input for additional sensor



ENGO binding function (devices connection



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:

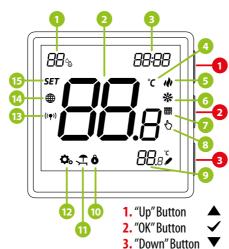
L SL1

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
- 5. Heating indicator (icon is animating when there is heating demand)

b) Connection diagram to pump / actuator:

EONE230W/B

L COM

Legend:

Valve actuator

Temperature sensor

230V AC power supply

Voltage-free output

230V AC voltage output

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 pairing 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
$\blacktriangle + \blacktriangledown$	Enter binding mode - hold 10 seconds
	Thermostat factory reset - hold 15 seconds
▲ + ✓	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.

Enter the verification code Enter your e-mail address to which the received in the email. verification code will Remember that you only be sent. have 60 seconds to enter the code!!

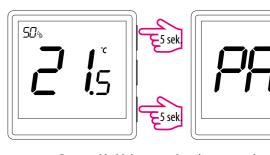
Then set the login password.

Set 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 for approx. 5 seconds until the display shows "PA". Then release the keys. The pairing mode will be started up and counts the time back (180s).



In the app, click on 👴 upper right corner.



Select: "Add Device".



When the ZigBee gateway finds thermostat click the "Add" button.

Power supply Max. load Temperature range

Technical specifications

Display temperature accuracy

Control algorithm

Communication

S1/S2 multifunctional input

Output control

IP protection class

Dimension [mm]

time schedules.

INTRODUCTION:



Name the device and click "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 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.

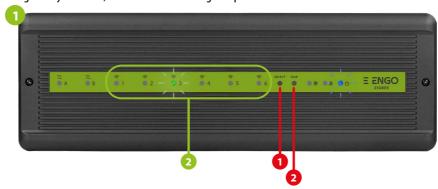


Remember:

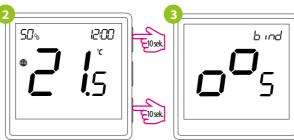
Radio range can be increased by Engo ZigBee repeaters.

Binding thermostat with the ECB62ZB wireless control box

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

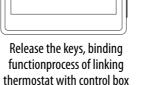


In order to correctly link thermostat with the control box, first select the zone in the control box with the SELECT button (1) (zone which you want to link with thermostat). The LED (2) will flash 3 times for the selected zone. Confirm your selection by clicking PAIR button (2). The LED (2) will flash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

9000





is active.

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).



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.

Factory reset

Installer parameters

Clock format

Heating/Cooling Selection

Control algorithm

Offset temperature

"Minimum setpoint"

"Maximum setpoint

S1/S2 Input

Maximum floor temperature for heating

(function active when P07=2)

Minimum floor temperature for heating

(function active when P07=2)

Maximum floor temperature for cooling

(function active when P07=2)

Minimum floor temperature for cooling

(function active when P07=2)

Comfort warm floor

Valve protection

Internal relay

Backlight brightness

PIN Code for settings access

equire a PIN to unlock the keys every time

(function active when P16=PIN)

Clear settings factory reset

P01

P04

P05

P06

P09

P12

P13

P14

P15

Value

12h

24h

ili

*

TPI UFH

TPIRAD

TPI ELE

HIS 0.2

HIS 0.4

HIS 0.6

HIS 0.8

HIS 1.0

HIS 2.0

HIS 3.0

HIS 4.0

-3.5°C do +3.5°C

5℃-45℃

5℃-45℃

2

4

5℃-45℃

5℃-45℃

5℃-45℃

5℃-45℃

OFF

Level $1 = 7 \min$

Level 2 = 11min

Level 3 = 15min

Level 4 = 19min

Level 5 = 23min

ON

0FF

NO

NC

0FF

10% - 100%

NO

PIN

NO

YES

NO

YES

To RESET Thermostat to factory settings, hold down the ▲ and ▼ buttons for approx. 15 seconds. FA will be displayed. 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.







Default

value

24h

TPI UFH

for heating

HIS 1.0 for

0℃

5℃

35℃

OFF

50%

NO

NO

NO

Desription

12 hour

24 hour

Heating

Cooling

TPI for Underfloor Heating

TPI for Radiators

TPI for Electrical Heating

SPAN +/-0,1°C

SPAN +/-0,2°C

SPAN +/-0,3°C

SPAN +/-0,4°C

SPAN +/-0,5°C

SPAN +/-1,0°C

SPAN +/-1,5°C

SPAN +/-2,0°C

If the thermostat indicates wrong temperature, you can correct it by

max + 3.5°C"

Minimum heating / cooling temperature that can be set

Maximum heating / cooling temperature that can be set

Disable

External sensor as a floor sensor

External sensor as an air sensor

Occupnacy sensor (ON/OFF volt free input)

In order to protect the floor, the heating will be turned off, when the

temperature of the floor sensor rises above the maximum value.

In order to protect the floor, the heating will be switched on, when the

temperature of the floor sensor drops below the minimum value.

In order to protect the floor, cooling will be switched on, when the

temperature of the floor sensor exceeds the maximum value.

In order to protect the floor, cooling will be turned off, when the

temperature of the floor sensor drops below the minimum value $\,$

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.

Function disabled

Function enabled

Relay type NO-COM

Relay type NC-COM

Relay disabled

Adjustable in the range from 10 to 100%

Function disabled

Function enabled

Function disabled

Function enabled

No action

Factory Reset



After successfull binding

operation "End" message

will be displayed.

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.