

## Wired Thermostat, 230V



EASY230W / EASYBATW



EASY230B / EASYBATB



Producer:  
 Engo Controls S.C.  
 43-200 Pszczyna  
 3E Górnośląska St.  
 Poland

Distributor:  
 QL CONTROLS Sp z o.o. Sp. k.  
 43-262 Kobielice  
 4 Rolna St.  
 Poland

### Quick Guide

Ver. 1  
 Release date: III 2022

[www.engocontrols.com](http://www.engocontrols.com)

Wired, non-programmable thermostat, battery powered (2xAAA) or 230V AC powered. It is used for wired control of heating or cooling devices and systems. It works by maintaining comfortable conditions in the room, in line with the setpoint temperature set by the user. It is connected directly to a heat source or wiring centre. For a better fit, the model is available in two colors. Safe, reliable, easy to use.

### Product Compliance

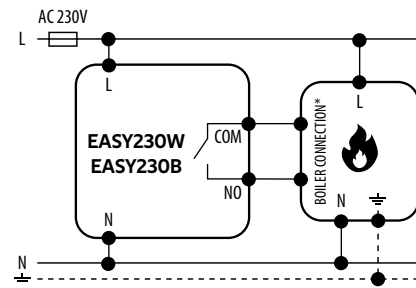
This product complies with the following EU Directives: 2014/53/EU, 2011/65/EU

### Technical Informations

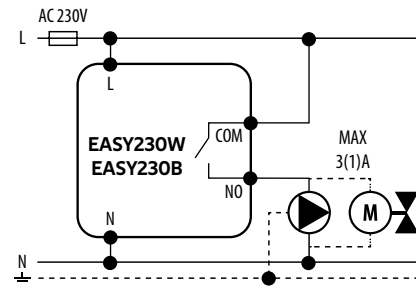
Power supply	230V or 2xAAA batteries
Max current	3 (1) A
Temperature range	5 – 35°C
Display temperature accuracy	0,1°C
Control algorithm	TPI or Hysteresis (±0.2°C to ±2°C)
Communication	Wired
Output control	COM / NO (voltage-free)
IP protection class	IP30
Dimension [mm]	80 x 80 x 22 mm

### Connection description for EASY230W / EASY230B

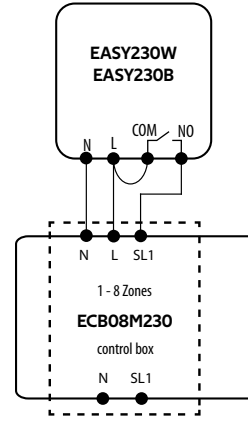
a) Connection diagram for gas boiler



b) Connection diagram to pump / actuator

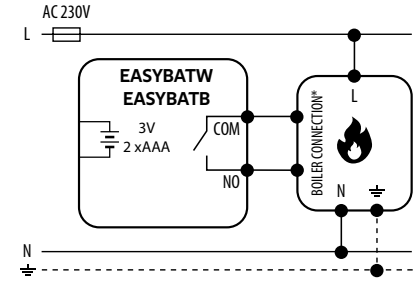


c) Connection diagram to the control box

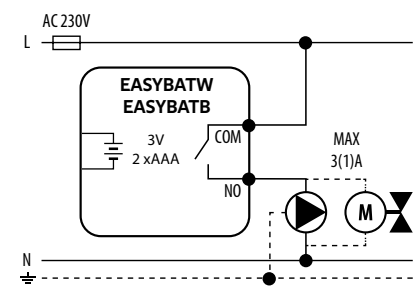


### Connection description for EASYBATW / EASYBATB

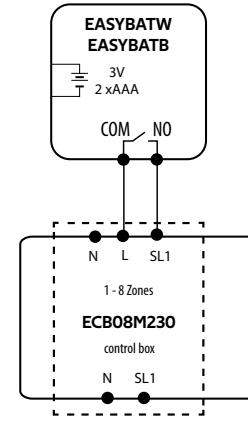
a) Connection diagram for gas boiler



b) Connection diagram to pump / actuator



c) Connection diagram to the control box



### Legend:



**Boiler - Boiler connection\*** - Boiler's contacts for ON/OFF thermostat (according to the boiler's instructions)



Pump



Valve

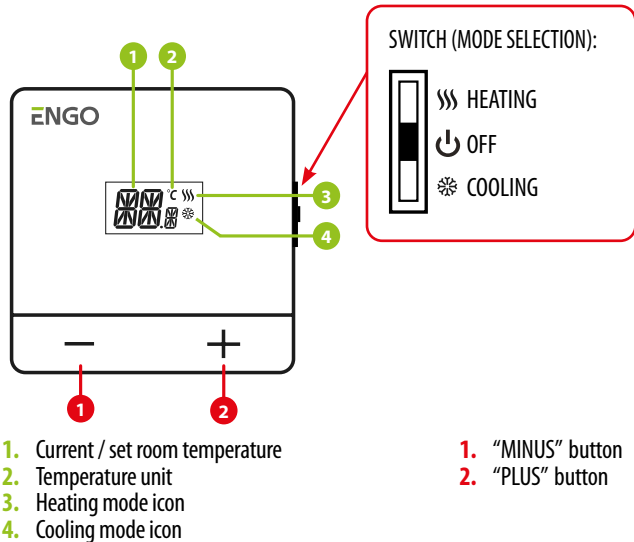
**L, N** - power supply

**COM, NO** - voltage-free output

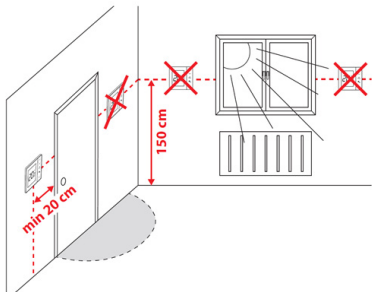
**SL1** - 230V control input in the control box

- fuse

## Description of the LCD display + description of the buttons



## Proper thermostat location



For the thermostat to work properly, it must be installed in a suitable place. Preferably approx. 150 cm above floor level, away from sources of heat or cold. In addition, the thermostat should not be installed behind curtains or other obstacles or in places with high humidity, as this will prevent an accurate measurement of the temperature in the room. It is not recommended to install the thermostat on an outside wall, in a draft or in a place where it will be exposed to direct sunlight.

## Lock / Unlock the thermostat's keys



To lock the keys on the thermostat, press and hold simultaneously **-** and **+** buttons for 7 seconds. After the **LOC** screen appears, release the keys. Thermostat is locked.

To unlock the keys on the thermostat, press and hold simultaneously **-** and **+** buttons for 7 seconds. After the **UNL** screen appears, release the keys. Thermostat is unlocked.

## Installer parameters

**0 MAIN SCREEN**  
To enter the service menu, press and hold „MINUS“ and „PLUS“ buttons for 5 seconds.

**1 CHOOSE A CONTROL ALGORITHM**  
UFH - underfloor heating  
RAD - radiator heating  
ELE - electric heating  
H - hysteresis in the range from 0,4°C to 4,0°C  
Example: H = 0,4°C = ±0.2°C

**2 MIN. TEMP SETPOINT LIMIT**  
Set the minimum temperature setpoint limit.

**3 MAX. TEMP SETPOINT LIMIT**  
Set the maximum temperature setpoint limit.

**4 TEMPERATURE CALIBRATION**  
Displayed (measured) temperature can be calibrated in steps of 0.1°C (from -3.5°C to + 3.5°C).

**5 BATTERY STATUS\***  
Check the current battery status (%).  
\*only for battery version

**6 OUTPUT CONTROL**  
Select whether the thermostat output has to work as NO = Normally Open or NC = Normally Closed.

**7 RESET**  
Reset thermostat settings to default values.

**WARNING!**  
After entering the service menu, use **-** or **+** buttons to choose parameter. For the parameter selection to be confirmed, wait 3 seconds. The screen will appear with the settings that you can change with **-** or **+** buttons. Wait 3 seconds for the selection to be confirmed. The thermostat will go to the home screen.