ENGO EHW

Hot Water Timer

EHW-W EHW-B

Quick Guide

Ver. 1.6
Release date: XI 2025
Soft:
Main Module v3.0.18
MCU v0.0.8

Works with ENGO SMART App

Powered By tuya

GET IT ON Google Play

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ENGO CONTROLS

Producer:
Engo Controls sp.z.o.o. sp.k.
Rolna 4 St.
43-262 Kobielice
Poland

www.engocontrols.com

Product compiliance

This product complies with the following EU Directives: 2014/53/EU i 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.

Installation

Installation must be performed by a qualified person with appropriate electrical qualifications, in accordance with the standards and regulations in force in a given country and in the EU. The manufacturer is not responsible for non compliance with the instructions.

ATTENTION:

Relay output COM/NO/NC shall be used only with loads whose current and type comply with the parameters specified in the technical data of the controller. High-current or so-called heavy-duty loads (e.g. heaters, fans, motors, pumps, loads with high inrush current) must be controlled via an external contactor and appropriately selected overcurrent protection. Any damage resulting from incorrect selection or connection of the load is not covered by the manufacturer's liability.

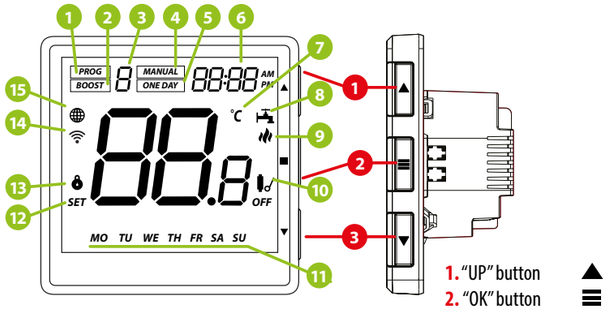
ATTENTION:

For the entire installation, there may be additional protection requirements, which the installer is responsible for.

Introduction

The EHW is an intuitive time programator for domestic hot water. Allowing precise programming of operating hours, it gives users real control over energy consumption and reduces operating costs. The flexibility of the system is highlighted by the possibility of connecting a storage tank temperature sensor or DHW cylinder thermostat with a voltage-free output. Simple control panel, easy installation and wide compatibility make this timer the ideal solution for any household, guaranteeing comfort and savings.

LCD Icon description



1. "UP" button ▲
2. "OK" button ☰
3. "DOWN" button ▼

1. Schedule icon
2. BOOST mode
3. Time period of Program /BOOST modes
4. Manual mode
5. One Day mode
6. Clock
7. Celcius unit
8. Tap icon
9. Heating mode icon
10. Hot Water stat icon
11. Day of the week
12. Setting icon (set value icon)
13. Key lock
14. WiFi connection
15. Cloud connection

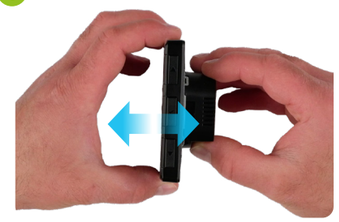
Button description

▲	Change the parameter value up
▼	Change the parameter value down
☰	PROG/BOOST/MANUAL/ONE DAY mode selection - short button press
	Enther the Clock settings/Schedule settings/installer parameters- hold 3 seconds
	Turn OFF/ON thermostat - hold 5 seconds
▲+▼	Enter the pairing mode - hold until the PA message appears
	Factory reset - hold until the FA message appears
▲+☰	Lock/Unlock thermostat keys - hold 3 seconds

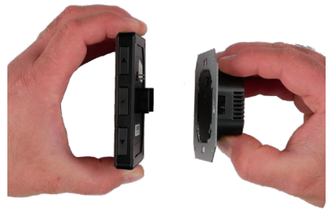
Wall mounting

To properly install the controller, follow the steps below:

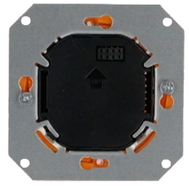
1



Grab the top part and the bottom part to disconnect



2



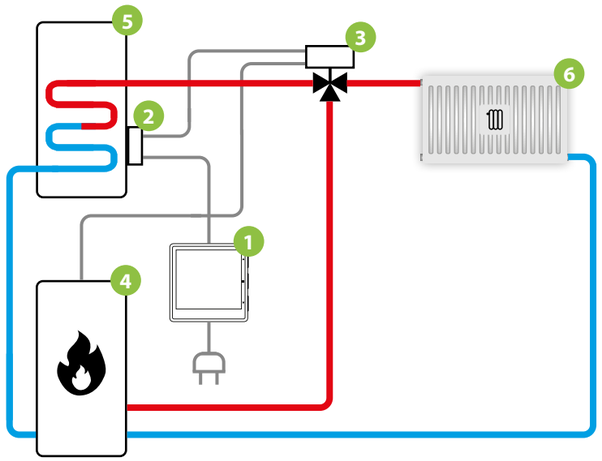
Connect the wires, and then screw back parts to the mounting box.

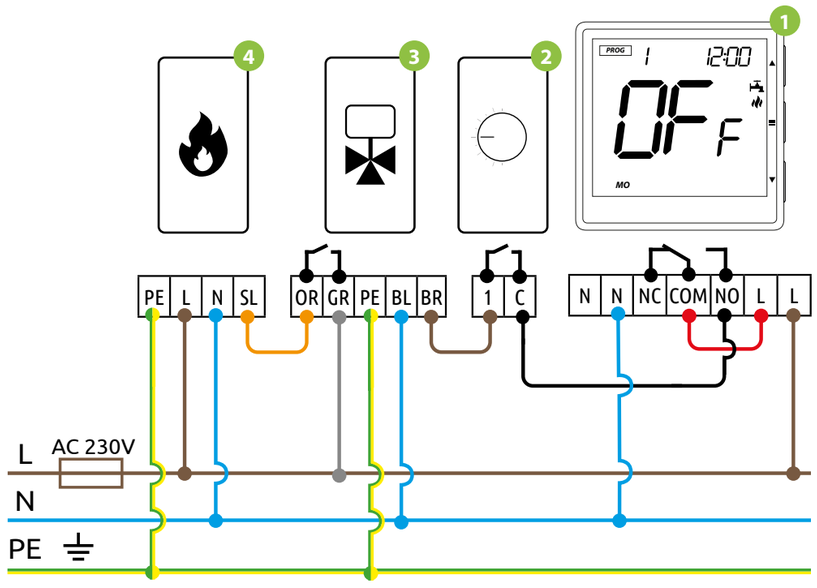
3

Slide the front of the controller over the back part.
Turn on the power supply.
The controller is ready for operation.

Connection description

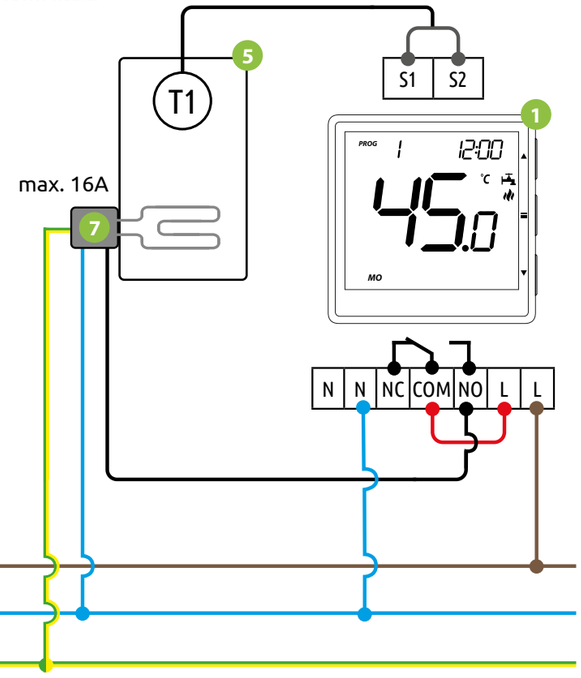
a) Wiring diagram in the UK system (Y PLAN)





ATTENTION:
Schematic for illustration only – it does not show all required electrical and hydraulic protection devices.

b) Wiring diagram for electric DHW heater



ATTENTION:
Schematic for illustration only – it does not show all required electrical and hydraulic protection devices.

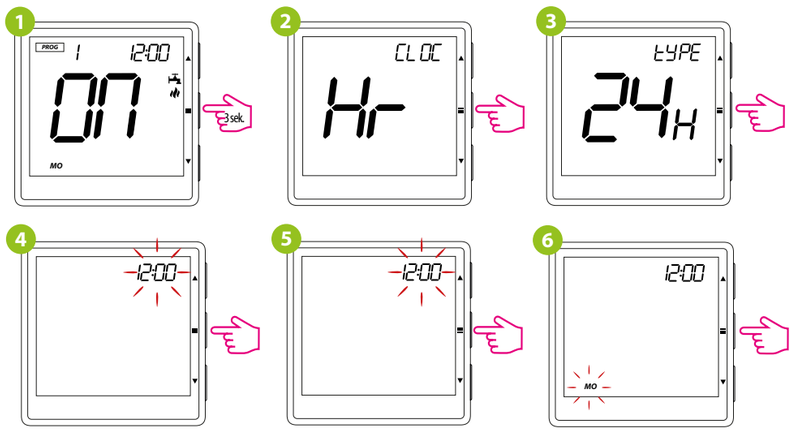
Legend:

	Fuse
L, N	230V AC power supply
PE ⏚	Ground
NO, COM, NC	Voltage-free output
S1-S2	Voltage-free input of a switch or temperature sensor EFS300
	Voltage-free contact
T	Temperature sensor
	Gas boiler* - Connection according to the heating device instructions

1. EHW Thermostat
2. Hot water stat
3. Valve hot water
4. Gas boiler
5. Hot water tank
6. Central heating
7. DHW electric heater

Setting the day of the week and time

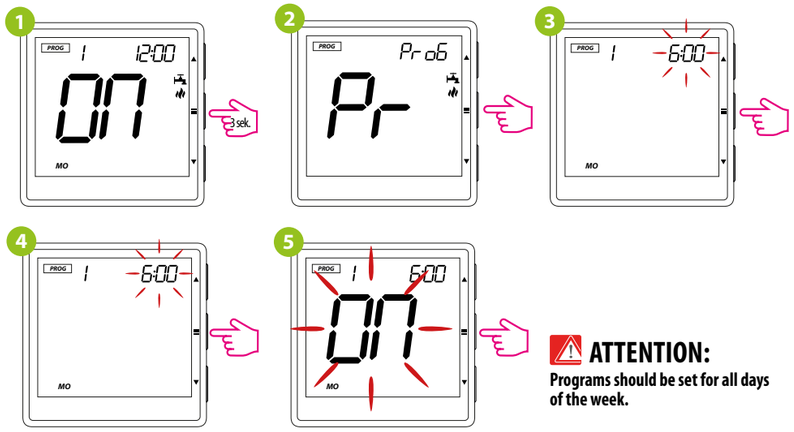
To enter clock settings press and hold ☰ button for 3 seconds, then Select "Hr" with the ▲ or ▼ button and confirm with the ☰ button.



Using the ▲ or ▼ button, set the clock format, then confirm with ☰ button. Similarly, set the following parameters: Hour, minutes and day of the week.

Setting the schedule

To enter the schedule programming, press and hold ☰ button for 3 seconds, then Select "Pr" with the ▲ or ▼ button and confirm with the ☰ button.



ATTENTION:
Programs should be set for all days of the week.

Use the ▲ or ▼ buttons to set the hour, minutes and desired status (ON or OFF) for each of the four time intervals, each time confirming the selection with ☰ button . You can copy the set schedule to the next day by confirming 'YES' value for the "Copy" parameter - just approve it with ☰ button. If you want to set an individual schedule for the next day, set the "Copy" parameter to "NO", confirm the selection with ☰ button , and then create a schedule.

BOOST Function

The BOOST function allows you to manually and temporarily start heating the DHW (hot water) tank for a selected period of time - up to a maximum of 9 hours, regardless of the programmed schedule. DHW heating starts immediately when the function is activated. After the set time has elapsed, BOOST turns off automatically and the controller returns to operation according to the weekly program. The function can also be turned off manually at any time.

ONE DAY Function

When ONE DAY mode is activated, the thermostat operates in continuous heating mode throughout the day, from the first programmed START time to the last STOP time in the schedule.
Example for the program:
6:00 AM - ON.
8:00 AM - OFF.
12:00 AM - ON.
3:00 PM - OFF.
7:00 PM - ON.
11:00 PM - OFF.
- ONE DAY mode will turn on the heating for the entire time from 6:00 AM to 11:00 PM - without interruption. The mode remains active until it is manually turned off by the user.

Installation of the Wi-Fi 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.

Powered By tuya

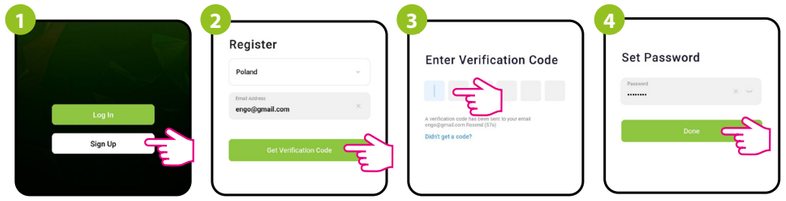
ENGO SMART App

GET IT ON Google Play

Available on the App Store

STEP 2 - REGISTER THE NEW ACCOUNT

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

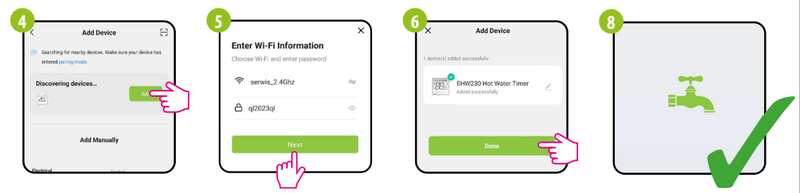


1. Click „Sign Up" to create new account.
2. Enter your e-mail address to which the verification code will be sent.
3. Enter the verification code received in the email. Remember that you only have 60 seconds to enter the code!
4. Then set the login password.

STEP 3 - CONNECT THE THERMOSTAT TO WI-FI

After installing the app and creating an account:

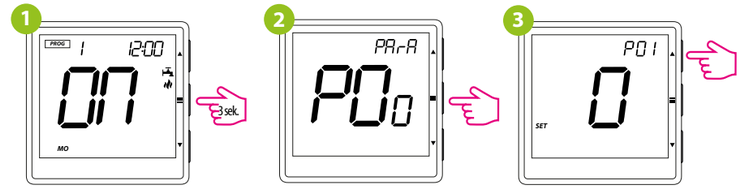
1. On your mobile device, make sure the ENGO Smart has access to permissions (Location, Bluetooth, Nearby devices). Then turn on Bluetooth and Location. Connect to 2.4GHz Wi-Fi network to which you want to assign the device.
2. Make sure the thermostat is powered on and configured. Then press and hold the buttons on the thermostat for approx. 3 seconds until the display shows „PA". Then release the keys. The pairing mode will be started up.
3. In the app, select: „Add Device".



4. After finding the thermostat, go „Add".
5. Select the Wi-Fi network in which the thermostat will operate and enter the password of this network.
6. Name the device and click „Done".
8. The thermostat has been installed and displays the main interface.

Installer parameters

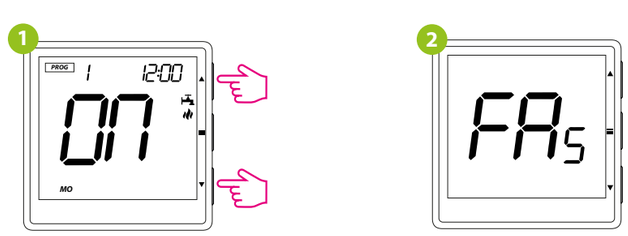
To enter installer parameters press and hold ☰ button for 3 seconds.



Use ▲ or ▼ button to move between parameters. Enter the parameter by ☰. Edit the parameter using ▲ or ▼. Confirm the new parameter value with the ☰ button.

Pxx	Function	Value	Description	Default value
P01	S1 - S2 input configuration	0	Nothing connected	0
		1	External temperature sensor	
		2	Hot Water Stat connected to S1-S2	
P02	Histeresis	1°C to 20°C	Hysteresis - switching off when the set temperature is exceeded, switching on when it falls below: Temp preset - hysteresis.	5°C
P03	Anti Legionella	OFF	OFF - The disinfection function against Legionella bacteria is inactive.	OFF
		ON	ON - Active function, runs once a week - on Monday at 2:00 am. The operation depends on parameter P01: - P01 = 0 or 2 (no sensor or thermostat) - Heating on for 60 minutes. - P01 = 1 (temp. sensor on S1) - Heating continues until 70°C or max. 60 minutes. Once the cycle is complete, the controller returns to the previous mode.	
P04	Offset temperature	-5°C to +5°C	If the thermostat indicates wrong temperature, you can correct it by max ± 5.0°C	0°C
P05	Backlight brightness	10% - 100%	Adjustable in the range from 10 to 100%	30%
CLR	Clear settings factory reset	NO	No action	NO
		YES	Factory reset	

Factory reset



To RESET controller to factory settings, hold down the ▲ & ▼ buttons until the FA message appears. Then release the keys. Controller will restart, restore default factory settings and displays the home screen. The device will be also removed from app.

Technical data

Power supply	230V AC 50 Hz
Setpoint temp. range	30°C to 85°C
Display temp. accuracy	0,5°C
Control algorithm	Histeresis (1,0 to 20°C)
Communication	Wi-Fi 2,4GHz
Input	S1-S2- temp. sensor or volt-free contact
Control outputs	COM / NO / NC (volt-free), 16(2)A
Dimmension	90 x 90 x 44 mm (13 mm after mounting in a box with a diameter of 60)