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Producător Engo Controls S.C 43-262 Kobielice Rolna 4

Distribuitor Poltherm System SRL Miercurea-Ciuc Salcâm 6D România

www.engocontrols.com

Introduction

Products are a weekly, surface-mounted electronic room thermostat intended for home use. It has been designed for control of heating devices (e.g. gas, oil boilers, heat pumps) or cooling devices. It has the function of creating your own schedules. Thanks to the built-in algorithms, it offers much better temperature control accuracy than traditional mechanical thermostats. Please read these instructions carefully before using the device for the first time. The thermostat should use AA, 1.5V alkaline batteries. Put the batteries in the battery compartment located under the flap. Rechargeable batteries are not allowed.

Product Compliance

This product complies with the following EU Directives: E901: 2014/30/EU, 2014/35/EU, 2011/65/EU E901RF: 2014/53/EU, 2011/65/EU (()) 868.0 MHz - 868.6 MHz; <13dBm



This document is a quick guide for installing and operating the product and indicates its most important features and functions.

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. Installation must be carried out by a qualified person in accordance with national and EU regulations.

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

WARNING:

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

Video tutorials





Wall mounting



Remove the thermostat cover as shown in the picture. If there are batteries inside, remove them.



Use a screwdriver to push the plastic tabs in as shown in the figure until you feel resistance, and tilt the front part of the housing.



Separate the front part from the back part in the direction shown above.

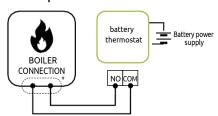


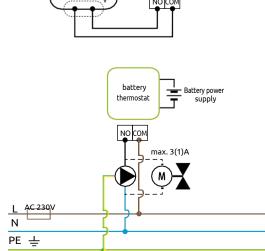
Then fix the back cover to the wall using the supplied mounting screws and the holes provided (see bigger arrows). Connect the wires to the COM / NO connector (see smaller arrows)



Using the hinges from left, fold the back and front covers by moving as shown in the picture above until they click into place.

Connection description for wired thermostat





Receiver from the wireless kit

1 - green (upper one),

2 - orange (lower one).

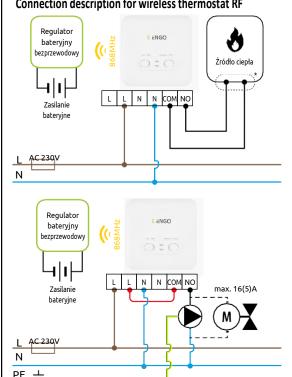


A detailed explanation of the meaning of the LEDs can be found in the table below:

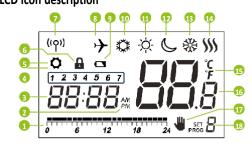
thermostat's command)

	DESCRIPTION	
	The receiver is connected to the 230V power supply.	
The green LED lights up	The receiver can be controlled by thermostat if it is in automatic mode when the right switch is in the AUTO position.	
	The receiver can be started manually when the right switch is in the MANUAL position.	
The green LED flashes	The receiver is in the pairing mode and is looking for a signal from the thermostat (then you must activate the "SYNC" parameter in the thermostat).	
The green LED is off	The receiver is disconnected from the 230V power supply or the left switch is in the OFF position.	
The orange LED lights up	In automatic mode, the receiver received a heating / cooling signal from the thermostat. The receiver was started in manual mode (left ON switch, right MANUAL switch)	
The orange LED flashes	The receiver was paired but lost communication with the thermostat due to out of range or low battery in the thermostat. The receiver starts flashing after 40 minutes of time when it does not receive a signal from the thermostat.	
The orange LED is off	The receiver does not send a heating / cooling signal.	

Connection description for wireless thermostat RF



LCD icon description

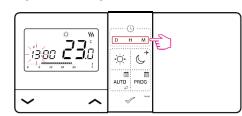


- I. Program timeline indicator 2. AM/PM
- 3. Clock
- 4. Day of the week indicator
- Settings icon
- 6. Key lock function
- 7. Send a signal (pairing) 8. Holiday Mode
- Low battery indicator
- 10. Antifrost Mode 11. Comfort Mode
- 12. Economic Mode 13. Cooling mode - ON
- 14. Heating mode OFF 15. Temperature unit
- 16. Room / setpoint temperature
- 17. Temporary override
- 18. Program number

Button description

Button	Function	
~	Change the parameter value down	
^	Change the parameter value up	
D	Set the day of the week	
Н	Set the hour	
М	Set the minutes	
₩	Comfort temperature	
C)	Economic temperature / Holiday mode	
AUTO	AUTO mode / Back button (to go back - press and hold)	
PROG	Programming / Program selection	
✓	Confirm function	
Reset	Factory Reset	

Setting Time / Setting Date



- Press D button to set the day.

Press H button to set the hour.

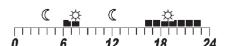
Press M button to set the minutes.

Manual mode - temperature settings

There are several temperature levels at our disposal. Only one temperature level is realized 24 hours a day in manual mode. You can set a different temperature for each level.

- Comfort Mode - in this mode, the thermostat is to maintain a constant day temperature. When the temperature is set manually, e.g. 23 ° C, the thermostat maintains it until user switches to another operating mode or set a different temperature, e.g. 21 ° C.

- Economic Mode - in this mode, the thermostat is to maintain the reduced (night) temperature. When the temperature is set manually, e.g. 17 °C, the thermostat maintains it until user switches to another mode or set a different temperature,

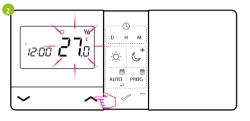


The values of these temperatures are taken into account in the automatic mode (for the first type of schedule -> see next page).

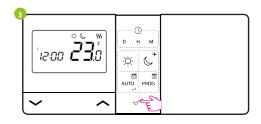
Setting the comfort temperature

Press any button to highlight the screen, then follow the steps below: 1200 **23**0

> Press-Q- button to enter comfort temperature mode. The sun icon should be visible on the display.



Using or buttons set new comfort temperature value.

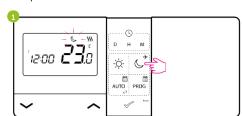


Confirm by $\operatorname{\mathscr{D}}$ button or wait until the thermostat will approve your choice itself and display the main screen.

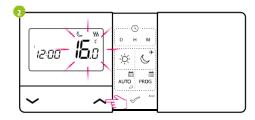
Setting the economic temperature



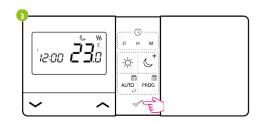
Press any button to highlight the screen, then follow the steps below:



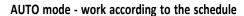
Press button to enter economic temperature mode. The moon icon should be visible on the display.



Using or buttons set new economic temperature value.



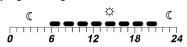
Confirm by $\sqrt{}$ button or wait until the thermostat will approve your choice itself and display the main screen.



in the automatic mode, the thermostat maintains the set AUTO

Temperature according to the schedule selected by the user. You can choose from 2 types of schedule to manage the temperature during the week.

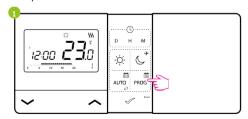
The first type of schedule (factory set with a time line) and its programming is described below:



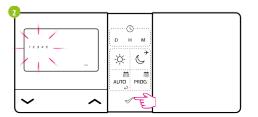
There are 9 programs available. Programs 0-3 are factory programs. Programs 4-9 can be defined by user.

Selection of factory (0-3) programs

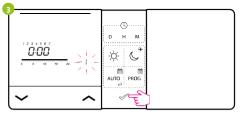
Press any button to highlight the screen, then follow the steps below:



Press PROG button to enter the programming mode.



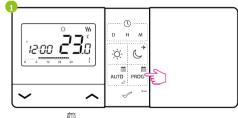
Select the week period using or buttons. Confirm by \square button.



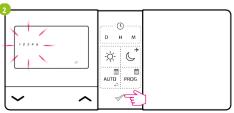
Using or buttons choose program number (0-3). Confirm by ✓ button. The thermostat will proceed to program selection for the next time period.

Choosing and programming (4-9) user programs

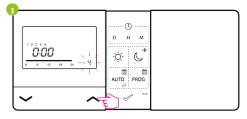
Press any button to highlight the screen, then follow the steps below:



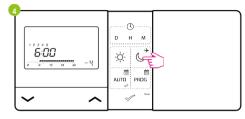
Press PROG button to enter the programming mode.



Select the week period using ightharpoonup or ightharpoonup buttons. Confirm by \square button.



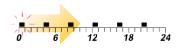
Using or buttons choose program number (4-9).



Then - each time you press the sun - * the button or moon button - \$\&cup\$ you move the timeline one hour and assign a comfortable (🔆 or economic (🖫 temperature. Confirm by 🛷 button.

PLEASE NOTE!

Programs should be set for each week days.

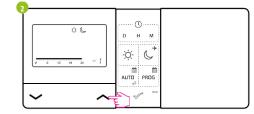


The second type of schedule and the programming method is described below:

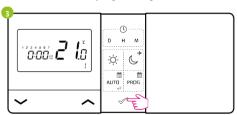
Press any button to highlight the screen, then follow the steps below:



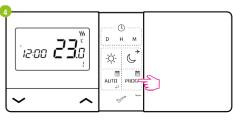
Press PROG Button for 5 seconds to enter to the schedule programming selection mode.



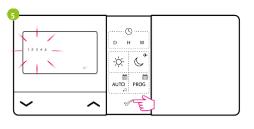
Using or buttons choose the second type of schedule programming.



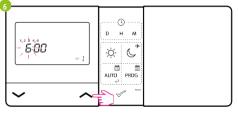
Confirm by button. Thermostat will return to the main screen saving the second type of schedule programming. The timeline will also disappear.



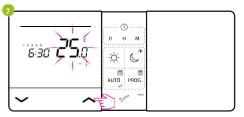
Press PROG button to enter the programming mode.



Select the week period using ightharpoonup or ightharpoonup buttons. Confirm by \text{ button.}



Using or buttons set the program start and then after confirmation by w button, set the minutes. Confirm by w button.



Use or or buttons to set the temperature. Confirm by www button. The thermostat will proceed to set the next program (a maximum of 6 programs can be set).



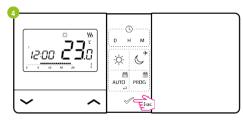
Programs should be set for each week days.

Pairing process with the receiver

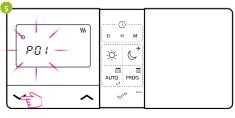




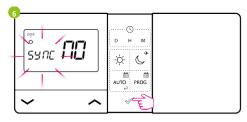
If you want to re-pair the devices with each other, make sure that the receiver is disconnected from the power supply, and the switches on it are in the ON and AUTO positions. Then connect the receiver to the power supply and wait for the green diode to glow continuously. Next, move the left switch to the OFF position and back to the ON position with a quick motion. After all, the green diode will start blinking, which will confirm that the receiver has entered the pairing mode.



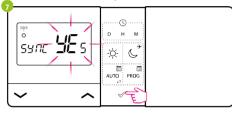
Press button for 5 seconds.



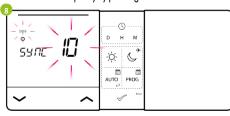
Use or buttons to select SYNC parameter.



Confirm by \sqrt{button.}



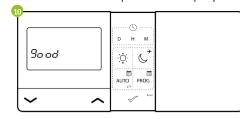
Using or buttons choose YES and start the pairing process on a new frequency by pressing the / button.



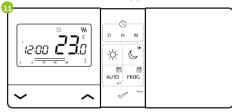
The thermostat started to send a signal to find the receiver (the symbol of the blinking antenna) and started the countdown with the number 10 (min). The pairing process may take up to 10 minutes.



When the green diode on the receiver lights up continuously, the devices have been paired on a new frequency.



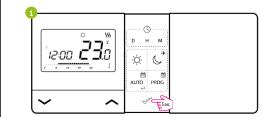
The thermostat will display the message,,good", which means that the devices are successfully paired with each other.



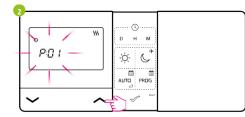
The thermostat will return to the main screen.

WARNING! If the green diode on the receiver has not stopped blinking after 10 minutes, repeat the pairing process taking into account the distance between devices, obstacles and interference.

Installer settings



To enter installer parameters press and hold button for 5 seconds.



You are in the installer mode. Use ightharpoonup or ightharpoonup buttons to move between parameters. Enter the parameter by \mathscr{D} button. Edit the parameter using or button. Confirm the new parameter value with the button.

Installer parameters

Рхх	Function	Value	Description	Default value
DO 1	Heating/Cooling	泰	Cooling	"
P01	Selection	\$\$\$	Heating	\$\$\$
		I	SPAN ±0,25°C	
		2	SPAN ±0,5°C	
P02	Control method	3	TPI for Underfloor Heating	I
	temperature	4	TPI for Radiators	
		5	TPI for Electrical Heating	
	Display	0,5°C	This parameter specifies the	0,5°C
P03	temperature resolution	0,1°C	accuracy of the displayed (measured) temperature.	
P04	Offset temperature	-3.5°C to + 3.5°C	If the thermostat indicates wrong temperature, you can correct it by ± 3.5°C	0°C
P05	D.1.	NO	Normally Open type of relay	NO
PU5	Relay type	NC	Normally Closed type of relay	
P06	Clock format	24h	24 hour	24h
FU0	Clock format	I2h	I2 hour	∠ 4 n
P07	Temperature Scale	°C	Celsius	°C
107		°F	Fahrenheit	
P08	Minimum setpoint	5°C - 34,5°C	Minimum heating / cooling temperature that can be set	5°C
P09	Maximum setpoint	5,5°C - 35°C	Maximum heating / cooling temperature that can be set	35°C
PI0	V	NO	Off	VEC
PIU	Key sound	YES	On	YES
PII	DINI C- 4-	NO	Disabled	NO
FII	PIN Code	PIN	Enabled	
PI2	Require a PIN to unlock the keys every time	NO	Function disabled	YES
FIZ		YES	Function enabled	
CLR	Clear settings factory reset	NO	No action	NO
		YES	Factory Reset	
*Only	for RF thermostat			
SYNC	Pairing function with receiver (SYNC)	NO	Function disabled	NO
		YES	Function enabled	

Technical specification

Wired thermostat

Thermostat supply	2 x AA batteries
Rating max	5 (3) A
Outputs	Voltage-free NO/COM relay
Temperature range	5 - 35°C

Wireless thermostat (868 MHz)

Thermostat supply 2	k AA batteries
Receiver supply	230 V AC 50 Hz
Receiver rating max 16 (5	A
Receiver outputs	Voltage-free NO/COM relay
Temperature range 5 - 35°	Ç .