ENGO

=901RF & =901

E901-RF | Programmable, Wireless Thermostat



Ver. 3.0 Date of issue: X 2024 901 Soft: v2.3 E901RF (TX) Soft v2.4 E901RF (RX) Soft v1.3

Ξ№℃€Ⅲ溪

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

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 ^{(የ}የ) 868.0 MHz - 868.6 MHz; <13dBm

🕂 Please note!

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 the instructions

WARNING:

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







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1. Program timeline indicator	10. Antifrost Mode
2. AM/PM	11. Comfort Mode
3. Clock	12. Economic Mode
4. Day of the week indicator	13. Cooling mode - ON
5. Settings icon	14. Heating mode - 0
6. Key lock function	15. Temperature unit
7. Send a signal (pairing)	16. Room / setpoint te
8. Holiday Mode	17. Temporary overrid
9. Low battery indicator	18. Program number

Button description

Button	Function	
\sim	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	
¢	Economic temperature / Holiday mode	
auto	AUTO mode / Back button (to go back - press a	
PROG	Programming / Program selection	
\checkmark	Confirm function	
• Reset	Factory Reset	

Setting Time / Setting Date



D 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 temperature level is realized 24 hours a day in manual mode a different temperature for each level.

- Comfort Mode in this mode, the thermostat is Ň. a constant day temperature. When the temper manually, e.g. 23 ° C, the thermostat mainta user switches to another operating mode or set temperature, e.g. 21 ° C.
- Economic Mode in this mode, the thermostat is C the reduced (night) temperature. When the tem set manually, e.g. 17 ° C, the thermostat mainta user switches to another mode or set a different e.g. 19°C.



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

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Set
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Set
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ting the comfort temperature

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



Press $\dot{\mathbf{Q}}$ button to enter comfort temperature mode. The sun icon should be visible on the display.



Using \checkmark or \checkmark buttons set new comfort temperature value.



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

ting 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.



rm by √ button or wait until the thermostat will approve your choice itself and display the main screen.

AUTO mode - work according to the schedule

 \blacksquare In the automatic mode, the thermostat maintains the set temperature according to the schedule selected by the user. You AUTO 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.

ℂ - economic temperature

Selection of factory (0-3) programs

☆ - comfort temperature

I 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 \checkmark or \checkmark buttons. Confirm by 🛷 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 (i) steps below:



Press PROG button to enter the programming mode.







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



Then - each time you press the sun - $\dot{\nabla}$ button or moon button - \bigcirc you move the timeline one hour and assign a comfortable (: \dot{c} :) or economic (C) temperature. Confirm by 🛷 button.



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 \frown or \smile buttons choose the second type of schedule programming.



Confirm by \checkmark 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.



AUTO PROG

 \checkmark

Use
or
or
buttons to select SYNC parameter.

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Sync **00** × C UTO PROG <u>~</u> \sim ~ Confirm by 🛷 button. ··()· р н м SYNC YES x C <u>~</u> ~ Using \checkmark or \checkmark buttons choose YES and start the pairing process on a new frequency by pressing the 🛷 button. ··(l)· ((q3) р н м `D SYNC x C AUTO PROG 0 \checkmark \sim ~ 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. $(\bigcirc : \bigcirc)$ When the green diode on the receiver lights up continuously, the devices have been paired on a new frequency. ...()... DН 90 od XC AUTO PROG \checkmark \sim ~ The thermostat will display the message "good", which means that the devices are successfully paired with each other. ..(). . 0<u>555_00</u>51 р н м XC \checkmark \sim ~ 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

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









You are in the installer mode. Use \checkmark or \checkmark buttons to move between parameters. Enter the parameter by 🖉 button. Edit the parameter using \checkmark or \checkmark button. Confirm the new parameter value with the \checkmark button.

Installer parameters

Pxx	Function	Value	Description	Default value		
D01	Heating/Cooling	卷	Cooling			
PUI	Selection	\$\$\$	Heating	>>>		
		1	SPAN ±0,25°C			
		2	SPAN ±0,5°C			
P02 Control method temperature	3	TPI for Underfloor Heating	1			
	4	TPI for Radiators				
		5	TPI for Electrical Heating			
	Display	0,5°C	This parameter specifies the	0.5%		
P03	resolution	0,1°C	(measured) temperature.	0,5°C		
P04	Offset temperature	-3.5°C to + 3.5°C	If the thermostat indicates wrong temperature, you can correct it by $\pm 3.5^{\circ}$ C	0°C		
P05	Relay type	NO	Normally Open type of relay	NO		
		NC 24k	Normally Closed type of relay			
P06	Clock format	24N 12b	24 nour	24h		
	Tomonovotuno	12II ℃				
P07	Scale	°F	Fahrenheit	°C		
P08	Minimum setpoint	5°C - 34,5°C	Minimum heating / cooling temperature that can be set	5℃		
P09	Maximum setpoint	5,5℃ - 35℃	Maximum heating / cooling temperature that can be set	35℃		
D10	NO NO		Off	VEC		
riu	Key souliu	YES	On	TES		
D11	DIN Codo	NO	Disabled	NO		
	TINCOUC	PIN	Enabled	NU		
Require a PIN to		P12	Require a PIN to unlock the keys	NO	Function disabled	YES
	every time	YES	Function enabled			
	Clear settings	NO	No action	NO		
	factory reset	YES	Factory Reset	NU		
Only for RF thermostat						
SYNC Pairing function with received (SYNC)	Pairing function	NO	Function disabled	NO		
	(SYNC)	YES	Function enabled	NU		

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)

2 x AA batteries
230 V AC 50 Hz
16 (5) A
Voltage-free NO/COM relay
5 - 35°C