SALUS CONTROLS 091FLv2 Digital Programmable Thermostat Instruction Manual

Contents

SALUS CONTROLS 091FLv2 Digital Programmable Thermostat

INSTRUCTION MANUAL

IMPORTER:

Park, Forge Way, Parkgate
Rotherham, S60 1SDBasey 3SP, UK

The 091FLv2 / 091FLRFv2 is a programmable weekly thermostat used to control room temperature in heating or cooling systems. Please read these instructions carefully before use.

Use only 1.5V AA alkaline batteries in the thermostat. Insert the batteries into the battery slot under the cover. Do not use rechargeable batteries.

Product compliance This product complies with the following EU directives:
091FLv2: 2014/30/EU, 2014/35/EU, 2011/65/EU
091FLRFv2: 2011/65/EU, 2014/53/EU 868.0 MHz – 868.6 MHz; <13dBm Full information is available on the website **www.saluslegal.com**

Safety information Use in accordance with national and EU regulations. Use the device only as intended, prevent moisture from entering, store in a dry place. The product is intended for indoor use. Installation must be carried out by a qualified person in accordance with national and EU regulations.

Introduction

091FLv2/091FLRFv2 is a programmable thermostat, used for controlling ambient temperature in heating or cooling systems. Before use, please read this manual carefully. Use only AA 1.5V alkaline batteries. Place the batteries in the designated place, located under the cover. Do not use rechargeable batteries

Product compliance This product complies with the following EU directives:
091FLv2: 2014/30/EU, 2014/35/EU, 2011/65/EU
091FLRFv2: 2011/65/EU, 2014/53/EU 868.0 MHz – 868.6 MHz; <13dBm Full information is available on the website www.saluslegal.com

Technical features

Wired thermostat 091FLv2

Power supply	2x AA batteries
Maximum load	5 (3) A
Exits	Voltage-free contact NO/COM relay
Temperature range	5 - 30°C

Wireless thermostat 091FLRFv2

Thermostat power supply	2 x AA batteries
Receiver power supply	230 V AC 50 Hz
Maximum receiver load	16 (5) A
Exits	Voltage-free contact NO/COM relay
Temperature range	5 - 30°C

Technical specifications

Thermostat for 091FLv2

feeding	2 AA batteries
Amperaj max	5 (3) A
Exit	Normally open relay NO/COM potential-free
Temperature range	5 - 30°C

Wireless thermostat 091FLRFv2

Receiver power supply	2 AA batteries
Receiver supply	230 V AC 50 Hz
Maximum receiver amperage	16 (5) A
Receiver output	Normally open relay NO/COM potential-free

Temperature range	5 - 30°C

Technical specifications Wired controller 091FLv2

Power supply	2 x AA batteries
Max. load	5 (3) A
Outputs	Unvolted NO/COM relay
Temperature range	5 - 30°C

Wireless controller 091FLRFv2

Thermostat power supply	2 x AA batteries
Receiver power supply	230 V AC 50 Hz
Max. receiver load	16 (5) A
Receiver outputs	Unvolted NO/COM relay
Temperature range	5 - 30°C

Specification

Wired thermostat 091FLv2

Power supply	2 x AA batteries
Maximum current strength	5 (3) A
Exit	Voltage-free NO/COM relay
Temperature range	5 - 30°C

Wireless thermostat 091FLRFv2

Thermostat power supply	2 x AA batteries
Receiver power supply	230 V AC 50 Hz

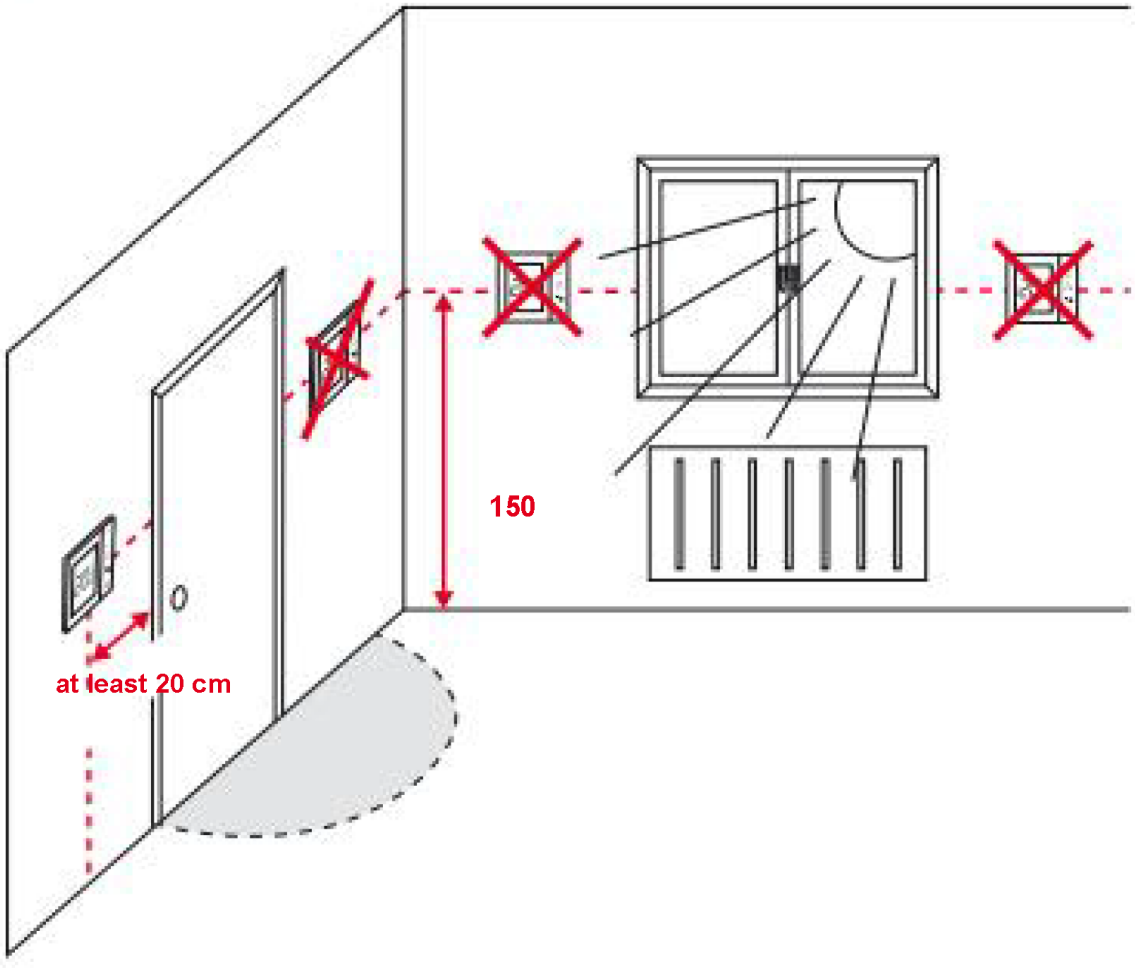
Maximum receiver current	16 (5) A
Receiver output	voltage-free NO/COM relay
Temperature range	5 - 30°C

Correct installation of the thermostat

Correct placement of the thermostat

Correct placement

Correct thermostat setting



Key functions

Keys	Function
	Daily temperature or changing parameters upwards
	Night temperature or changing parameters downwards
	Day setting
	Setting the clock
	Setting the minutes
	Temperature setting
	Weekly programming
	Program selection
	Confirmation
	Factory reset

Button function

button	Function
	Comfort temperature or parameter modification
	Economic temperature or parameter change
	Set the day of the week
	Set the time
	Set the minutes
	Reference temperature
	Weekly schedule
	Select program
	Confirm function

Reset	Reset	Factory reset

Button Description

Button	Function
	Comfort temperature or increase
	Economy temperature or reduction
	Setting the day of the week
	Time setting
	Minute setting
	Setting the temperature
	Weekly programming
	Program selection
	Confirm button
Reset	Factory settings

Thermostat functions

Symbol	Function
	Comfort temperature or increase
	Economy temperature or reduction
	Setting the day of the week

Temp		Clock setting
Temp		Setting the minutes
Prog		Temperature setting
Prog		Weekly programming
Prog #		Program selection
Prog #		Confirmation function
OK		Reset function
OK		
Reset		
Reset		

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091FLv2 Thermostat

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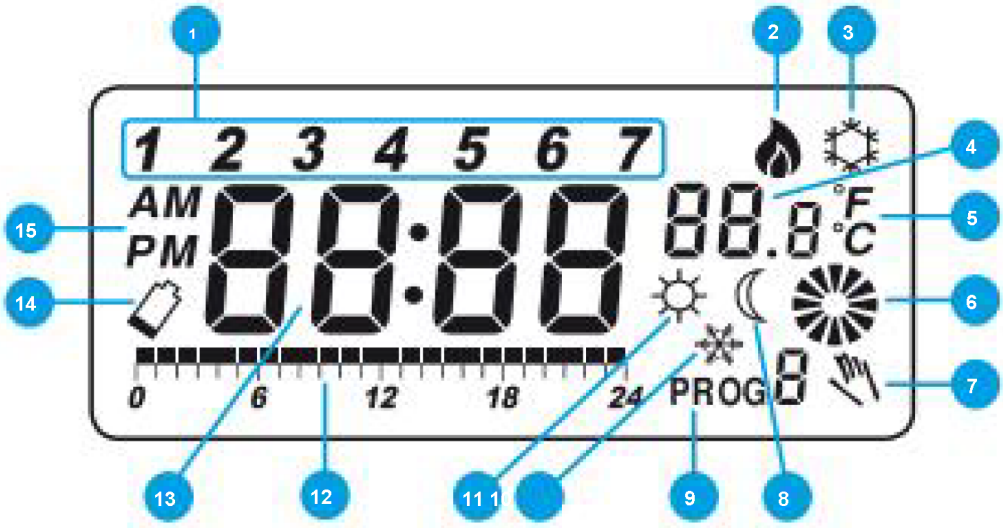
Description of LCD display symbols

Symbol description

Screen description

Description of icons on the LCD display



EN:

1. Day of the week indicator

2. Heating on **3.** Cooling

RO:

1. Day of the week indicator **2.** Heating mode ON **3.** Cooling mode

on **4.** Room/set temperature **5.** Temperature unit **6.** Operating status of the controlled device (e.g. boiler)

091FLEFv2 Thermostat

7. Temporary override settings **8.** Eco mode **9.** Program number **10.** Anti-freeze mode **11.** Daily mode **12.** Program timeline indicator **13.** Water **14.** Low battery indicator **15.** AM/PM

091FLv2 Thermostat

ON L COM

4. Ambient/setpoint temperature

Receiver TEXT510 N NO

5. Temperature unit **6.** Operating status of the controlled device (e.g. boiler)

7. Temporary change **8.** Economy mode **9.** Program number **10.** Anti-frost mode **11.** Comfort mode **12.** Program time indicator **13. COM** clock **14.** Low battery indicator **15.** AM/PM

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EN:

EN: 1. Day of the week indicator **2.** Heating mode ON **3.** Cooling mode ON **4.** Room temperature **5.** Temperature unit **6.** Heating device operation indication (e.g. boiler) **7.** Time change **8.** Economy mode **9.** Work program number **10.** Anti-freeze mode **11.** Comfort temperature mode **12.** Work program graph **13.** Clock **14.** Low battery indicator **15.** AM/PM

1. Day of the week indicator **2.** Heating mode ON **3.** Cooling mode ON **4.** Room/set temperature **5.** Temperature unit (label) **6.** Status of the controlled device (for example, a boiler) **7.** Manual mode **8.** Economy mode **9.** Program number **10.** Frost protection mode **11.** Comfort mode **12.** Program timeline indicator **13.** Clock **14.** Low battery indicator **15.** AM/PM

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091FLv2 Wiring diagram

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091FLv2 Electrical connection diagram

091FLv2 Wiring diagram

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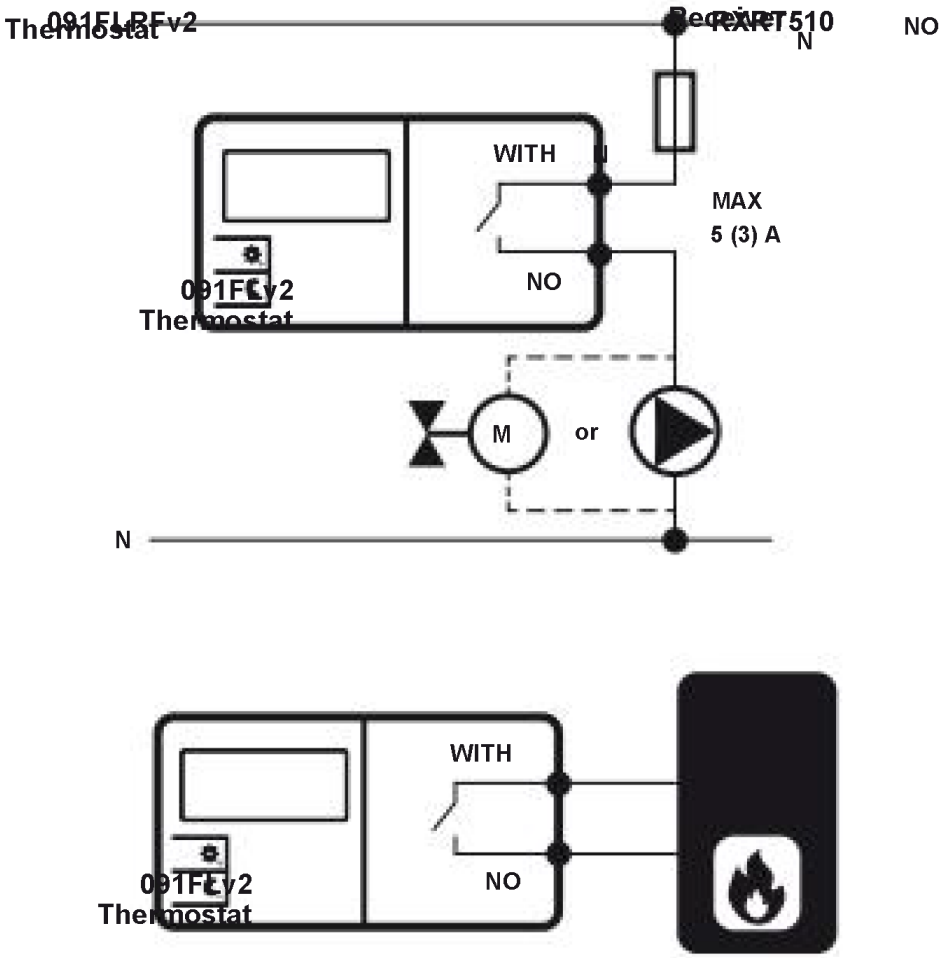
091FLv2 Wiring diagram



091FLRFv2 Wiring diagram

091FLRFv2 Electrical connection diagram

091FLRFv2 Wiring diagram

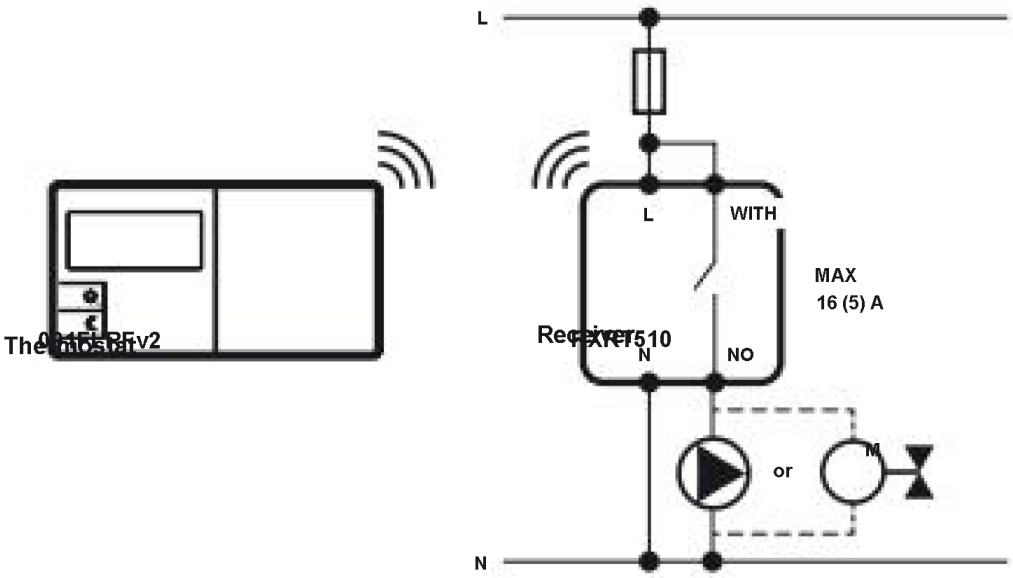
091FLRFv2 Wiring diagram

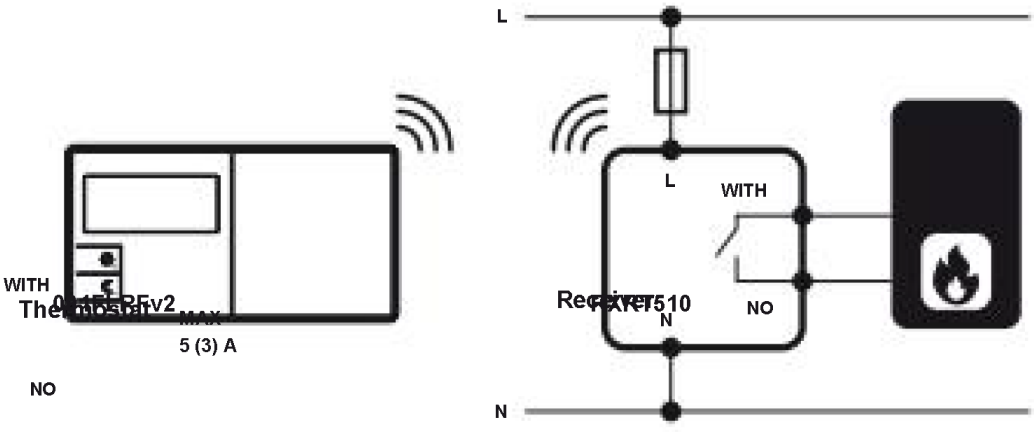
ENG: NOTE! If you are using the 091FLRFv2 kit, the thermostat and receiver are already paired, no additional settings are required.

RO: ATENŸIE! When using the 091FLRFv2 kit, the controller and receiver must be pre-synchronized. **ATTENTION!**

When using the 091FLRFv2 kit, the controller and receiver must be pre-synchronized.

NOTE! If you are using the 091FLRFv2, pairing between the thermostat and receiver has already been done.





/2
tat

M or D

H

Setting the time

M

Setting the time

Temp

L

Setting the time

Prog

WITH

Time setting

Prog #

NO

091FLv2
Thermostat

SLO:

Press OK to activate the screen.

Press D Reset to continue the day.

N

Press H to set the clock.

Press M to continue minutes.

Temp

Prog

Prog #

D Prog #

RO:

Press the button H OK to light up the display.

pressed D M Reset to set the day.

Temp

pressed H to set the time.

Prog

pressed M D to set the minute.

Prog #

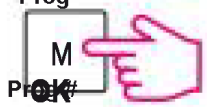
BG:

Press Temp OK to turn on the screen.

Press M Reset D to select a day of the week.

Prog

Press  to select the time.

Press  to select the minutes.

SRB: Press  button to illuminate the display.

Press  to set the day.

Press  to set the clock.

Press  to set the minutes.

Setting the day temperature

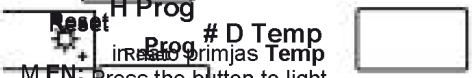
Setting the comfort temperature

Comfort temperature setting

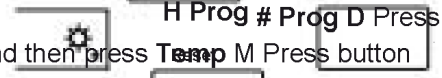
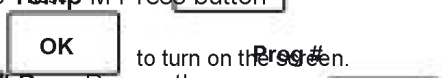
Comfort temperature setting

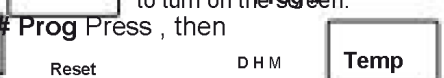
1

SLO: Press the button  da aktivirate zaslon.

Press  in tako sprimjas

EN: Press the button to light up the display.

Press  and then press  button.

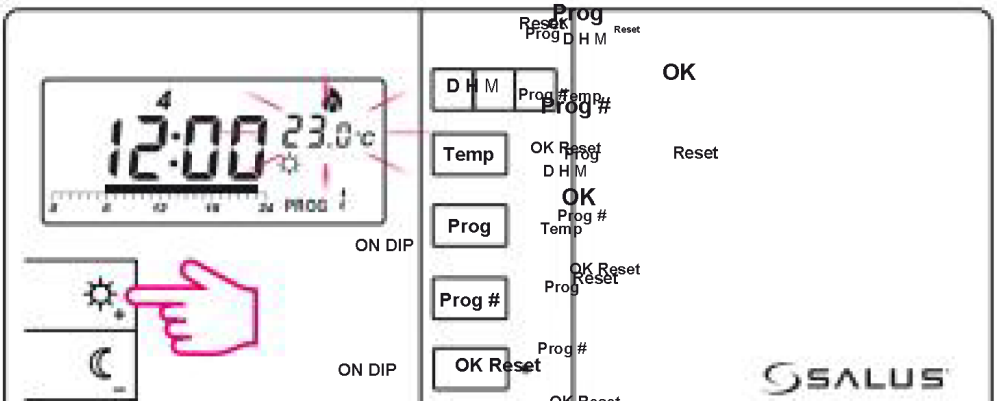
BG:  to turn on the screen.

press and then press 

SRB: Press  display light button.

Press  and then press 

2



SLO: The currently set daytime temperature is displayed on the screen. If you want to change this setting, press the D button or

RO: will indicate the current comfort temperature. To change the

BG: the current comfort temperature.

To change the value, select to increase or for a discount.

SRB: The current comfort temperature will be shown on the display.

To change this temperature, press button.

3

ENG: To confirm, press the Prog # button

RO: confirm, press the Prog # button Confirm the

BG: setting with the button

EN: Press the button to confirm.

Setting the night temperature

Economical temperature setting

Economical temperature setting

Setting the economy temperature

1

SLO: Press the button aktivirate zaslon.

Press # and then press

button Press Press the

button and then press

BG: to turn on

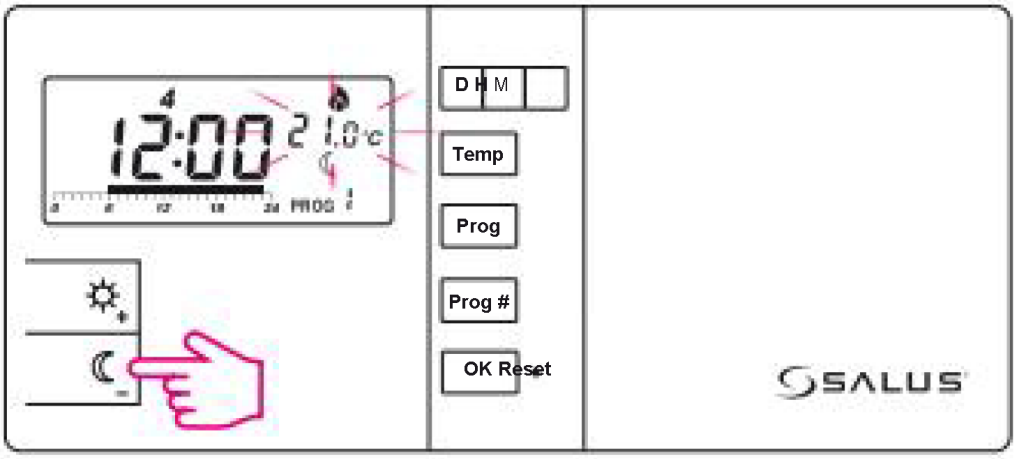
Press , then press

SRB: Press thermostat light button.

Press and then press

Reset

2



The display shows the currently set night temperature. If you want to change this setting, press the D button. **The display** will indicate but

RO: the actual economic temperature. To change the **DH** temperature, press the **DH** button or the DH button , select the Temp

for increase

or for reduction.

SRB: Prog The current economy temperature will be shown on the display.

To change this temperature, press **the Prog** or button.

3

SLO: To confirm , press the **Prog**

RO: button . BG: Confirm the setting with the button.

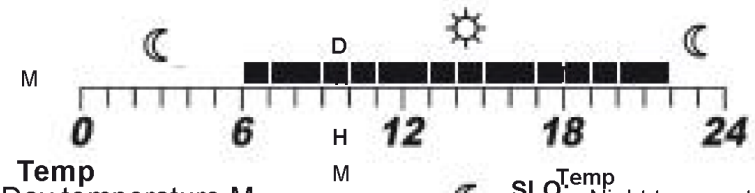
EN: Press the **OK** button to confirm .

Program

Programs

Programs

Program



SLO: Day temperature

RO: Comfort temperature **Temp**

Prog BG: Comfort temperature **Temp SRB:** Comfort temperature **Prog**

SLO: Night temperature

RO: Economic temperature

BG: Economy temperature

SRB: Economy temperature

Prog # There are 9 programs available. Programs 0-5 are factory preset **Temp Prog #** programs. Programs 6-8 can be set by the user.

Prog RO: The user can choose one of the 9 programs. Programs 0-5 are factory preset **OK ,** programs 6-8 can be defined according to the user's needs.

Prog # BG: You have 9 programs. Programs 0 to 5 are pre-configured. Programs 6 to 8 can be configured by the user.

OK EN: There are 9 programs available. Programs 0 to 5 are factory programs. Programs 6 to 8 can be changed according to user needs.

Reset

Selecting factory (0-5) programs

Selecting preset programs (0-5) Selecting a preset program (0-5)

Selection of factory (0-5) programs

1 to activate the screen.

RO: the day of the week by pressing the key

BG: Press the button to light up the display.

Select the day of the week by pressing the button Press the button to turn on the screen.

SRB: Press Display backlight **temp .**

Select day of the week by pressing of buttons.

2 **SLO:** Press to set the program number (0-5) for the selected day.

EN: Press the **OK** button

Select the day of the week by

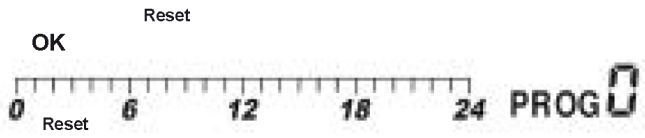
Select the day of the week with the button

RO: Press to set the program number (0-5) for the selected day.

BG: Press button to select program number (0-5)

for the selected day.

SRB: Press to select the program number (0-5) for the selected day.

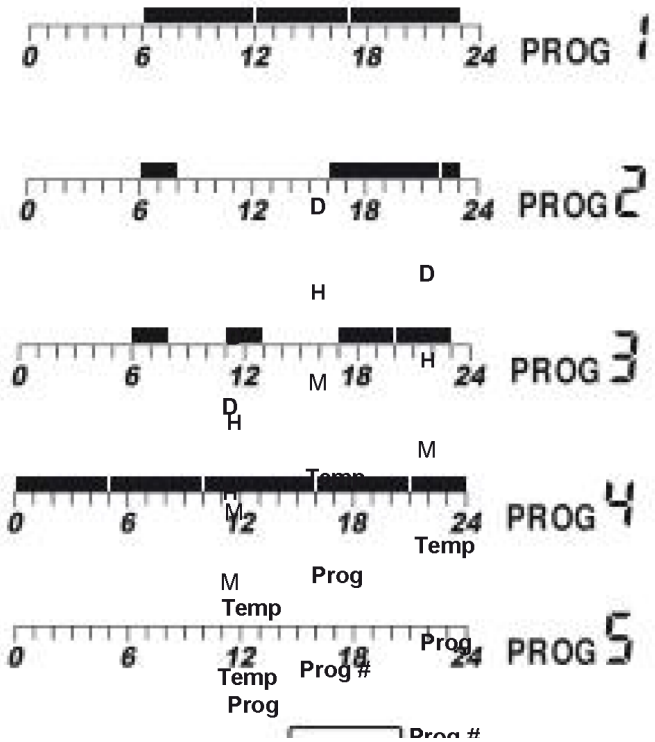


EN: **Program 0** is a special program. The thermostat will be set to frost protection (7°C) all day long.

RO: **Program 0** is dedicated, i.e. anti-freeze, it is set to a temperature of 7°C for the whole day. **ÿÿÿÿÿÿÿÿ 0** ÿ ÿÿÿÿÿÿÿÿÿ. ÿÿ ÿÿÿÿÿÿ ÿÿÿÿÿ ÿÿÿÿÿÿ

BG: ÿÿÿÿÿÿÿÿÿÿ ÿÿ ÿÿÿÿÿ ÿÿÿ (7°C).

EN: **Program 0** is a special program. It will set frost protection (7C) throughout the day.



SLO: Press the button to confirm.

RO: To confirm, press the button.

EN: Confirm with button

SRB: Press to confirm. button.

ENG: NOTE! The label with the program description is located on the flip side lid.

EN: NOTE! The label with the program description can be found on the back of the lid.

EN: NOTE! There is a label on the inside of the lid with a description of the programs.

EN: NOTE! There is a program description on the inside of the cover.

Selecting and programming (6-8) the user program

Selecting and setting programs (6-8) according to user needs ÿÿÿÿÿ ÿ

ÿÿÿÿÿÿÿÿÿ ÿÿ ÿÿÿÿÿÿÿÿÿ ÿÿÿÿÿÿÿÿÿ

Selection and programming of (6-8) user programs

1

SLO: Press the button to activate the screen.

Select the day of the week by pressing the button.

RO: Press the button to light up the display.

Select the day of the week by pressing the button

BG: Press to turn on the screen. Select the day from the week with a button

SRB: Press for display illumination.

Select the day of the week by pressing the button.

2

SLO: Press to set the program number (6, 7 or 8) for the selected

And..

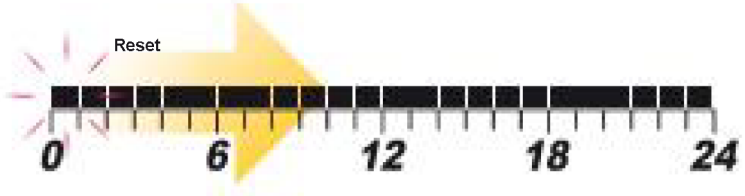
RO: Press to set the program number (6, 7 or 8) for the selected day's Temp .

EN: Press to select program number (6, 7 or 8)

for the selected day.

SRB: Press to select the program number (6,7-8) for the selected day.

3



SLO: Press the button (each press of one of these buttons moves the timeline by one hour and sets the day or night temperature).

RO: Press the button or the button (each press of one of these buttons shifts the program by one hour and sets the comfort temperature or the economy temperature).

EN: Press or (each button press sets comfort or economy temperature for 1 hour).

SRB: Press or button (pressing any of these **Temp** buttons advances the time line by 1 hour and assigns a comfort **Prog** or economy temperature).

4

SLO: Press the button to confirm.

RO: To confirm, press the button.

EN: Confirm with button

SRB: To confirm, press button.

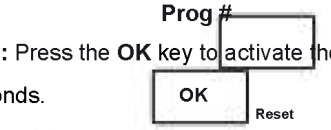
Service menu

Settings menu

Service menu

Service menu

SLO: Press the **OK** key to activate the display. To enter the service menu, press the M key for 5 seconds.



1

- **Heating mode** - the relay closes the contacts when there is a need for heating (default setting).

- **Cooling mode** - the relay closes the contacts when there is a need for cooling (with a 5-minute delay).

Press or to select the desired setting.

To confirm your selection, press

2

- Delayed start of the heating device enabled (default setting).

- Delayed heating switch-on is active (5 min)

Press or to select the desired setting.

To confirm your selection, press

3

- Selection of the temperature range (switching differential), possible values are 0.5°C or 1.0°C (default = 1.0°C).

Press but to set the range (switching difference).

To confirm your selection, press

4

- Room temperature display correction (value: -3.0°C to + 3.0°C, default = 0.0°C).

Press but to set the correction.

To confirm your selection, press

5

- Working contact - circuit closed*

- Peace contact - circuit broken*

*this feature is available from software version 2.6 onwards

Press or to select the desired setting.

To confirm your selection, press

The green LED is on when the circuit is complete.

6

- Connection process inactive

- Connection process active

NOTE! If you are using the 091FLRFv2 kit, the thermostat and receiver are already paired, no additional settings are required.

To re-pair the transmitter and receiver, make sure the device is unplugged and the receiver switches are set to AUTO and ON. Connect the receiver to the power supply, wait until the red LED indicator **D** is

on continuously. Then switch the switch to the OFF position and then quickly back to the ON position H.

The devices are connected when the red LED indicator flashes.

Select SYNC ON by pressing Prog but and confirm with OK to start the pairing process.

Temp The display will show . The pairing process may take up to Temp 10 minutes. When the devices are successfully paired, the red Prog LED on the receiver will light up. Press the Prog # button OK to complete the pairing process.

RO: Press the button to light up the display. Then access the settings menu by pressing the button for 5 seconds.

1 - **Heating mode** - the relay closes the contact when there is a heating command (default setting).

- **Cooling mode** - the relay closes the contact when there is a cooling command (with a 5 minute delay).

Press or to select the desired mode.

To confirm your choice, press

2 dLY OFF - **Timer disabled** (default setting).

dLY ON - **Timer activated** (5 minutes).

Select the function by pressing the button or button

To confirm your choice, press

3 SPAN 1.0°C - **Hysteresis Value,**

settable 0.5°C or 1.0°C (default setting = 1.0°C).

Press to set the hysteresis. or

To confirm your choice, press

4 OFFS 0.0°C - **Temperature calibration**

(adjustable within -/+ 3.0°C, default setting = 0.0°C).

Press To or to set the calibration.

confirm your choice, press

5 out NO - **Output terminal – Normally open***

out NC - **Output terminal – Normally closed***

*this function is available with software version 2.6 **Prog #** Select the function by pressing

the button or the button To confirm your choice, press

The green LED is always ON when the relay output is closed.

6 SYNC OFF - **The association process is inactive.**

SYNC ON - **The association process is active.**

ATTENTION! If you are using the 091FLRFv2 package, the pairing between the thermostat

and the receiver is already done.

To re-pair the thermostat with the receiver, make sure the device is not **connected** to the power source and that the receiver buttons are in the AUTO and ON positions.

After that, connect the receiver to the power source and wait for the LED to turn solid red. Then, flash switch to the OFF position and quickly back to the ON position. The LED will **Prog** red, confirming entry into pairing mode.

Select by pressing to start the pairing  or and confirm by pressing OK process.

The screen will display. The pairing process may take up to **Prog #** 10 minutes. Once the devices have been successfully paired, the LED on the receiver will stop blinking and turn red. Press the button to OK for complete the pairing process.

Prog

 # BG: Press button to turn on the screen. To enter the service menu, hold button for 5 seconds.

1 - **Heating mode** - the relay closes the contact when heating is required (set by default). - **Cooling mode** - the relay closes the contact when cooling is required (with a 5 minute delay).

Press or to select the mode.

Confirm with button OK

2 - **Off delayed start of device for heating** (set by default).

- **Delayed start on** (5 min). Select with buttons or . Confirm with OK

3 - **Temperature range selection,** accuracy of 0.5°C or 1.0°C (default setting is 1.0°C). Press to select the setting. Confirm with

4 **Prog - Correction of the measured temperature** (value; -3.0°C +3.0°C, default setting 0.0°C).

Press to set. or

Confirm with OK

5 - **Output – Normally Open**

out NC - **Output – Normally Closed**

*this function is available with software version 2.6 or higher. Select with buttons.

Confirm with  or 

The green LED indicator is always ON when a signal is present.

6

SYNC OFF - **Connection process inactive**

SYNC ON - **Connection process active**

ATTENTION! When using the 091PLRFv2 kit, the controller and receiver with a pre-synchronized.

To resynchronize the controller and receiver, make sure the device is powered off and the receiver switches are in the AUTO and ON positions. Reconnect the receiver to the power supply and wait

The LED indicator lights up red. Then move the switch to the OFF position and back to ON. A flashing red LED confirms that

that the device is in synchronization mode.

Select with the buttons to start the synchronization. On the screen  you will see . The synchronization process may take up to 10 minutes. If the devices are successfully synchronized, the LED indicator on the receiver will turn red. Press **Temp Prog** to complete the process.

 or  and confirm with 

 # SRB: Press the button to illuminate the display. Then open the service menu by pressing and holding the button for 5 seconds.

1

Heating mode - the relay closes the contacts when there is a need for heating (factory setting).

- Cooling mode - the relay closes the contacts when there is a need for cooling (with a 5 minute delay).

Press to select mode  or 

To confirm your selection, press 

2

dLY OFF - **Heating delay option is disabled** (factory setting).

dLY ON - **Heating delay is enabled** (5 min) button.

We make the selection by pressing  or 

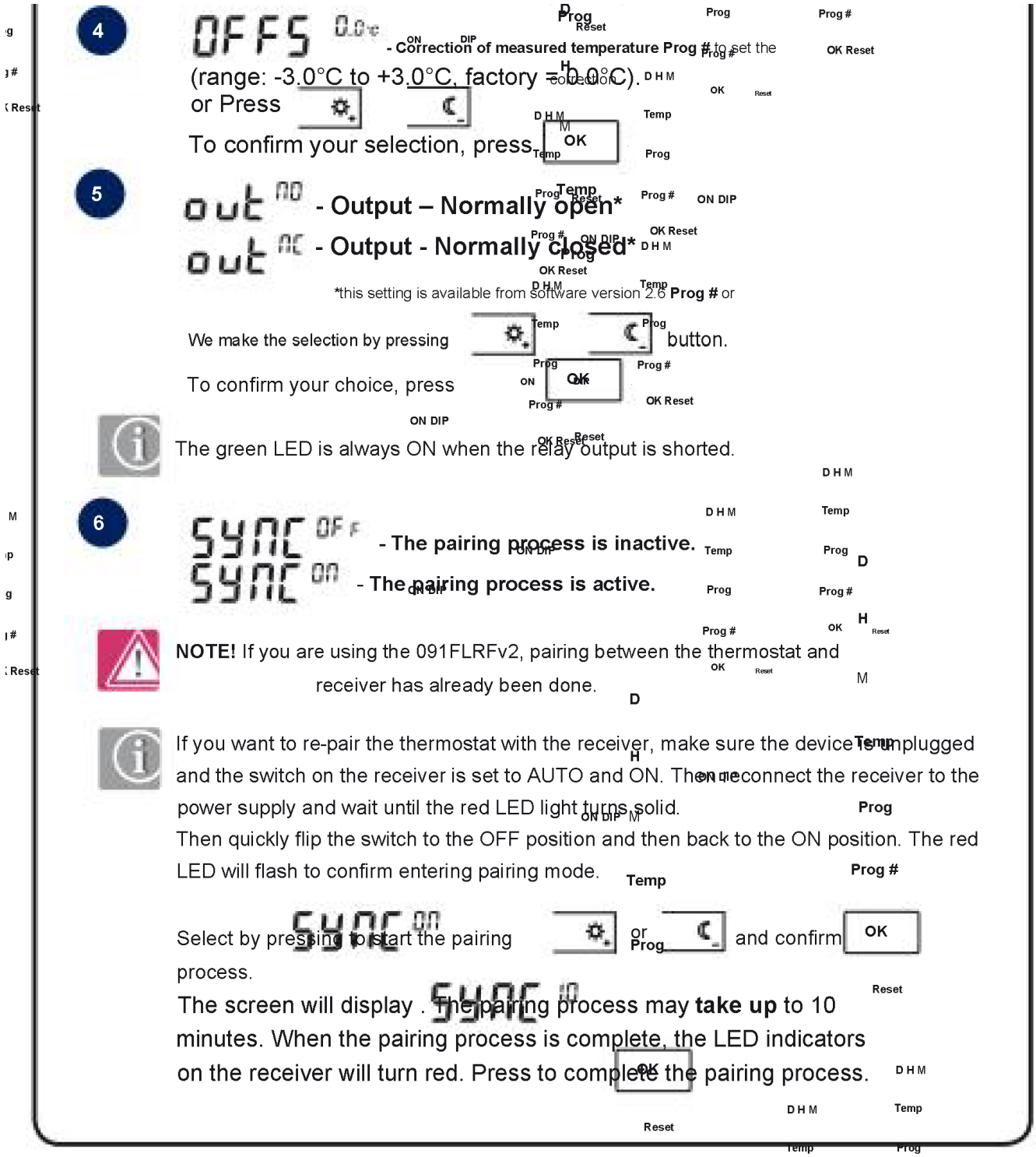
To confirm your choice, press 

3

SPAN 1.0°C - **Selection of temperature measurement range** in a possible range of 0.5°C or 1.0°C (factory = 1.0°C).

Press to set.  or 

To confirm your selection, press **OK.** 



Product Specifications:

- Model: 091FLv2, 091FLRFv2
- Type: Digital Programmable Thermostat
- Software Version: 2.6 (09/2024)
- Power Source: 1.5V AA Alkaline Batteries
- Frequency: 868.0 MHz – 868.6 MHz

Product Usage Instructions:

1. Installation:

Before installation, read the manual carefully. Insert 1.5V AA alkaline batteries into the battery compartment located under the cover.

2. Setting up:

Follow the programming instructions provided in the manual to set up the thermostat according to your heating or cooling system requirements.

3. Programming:

Use the controls on the thermostat to program the desired temperature settings for different times of the day or week.

4. Maintenance:

Regularly check the battery levels and replace them when necessary. Keep the thermostat clean from dust and debris to ensure proper functioning.

Frequently Asked Questions (FAQ):

Q: Can I use rechargeable batteries with this thermostat?

A: No, only use 1.5V AA alkaline batteries as rechargeable batteries are not recommended.

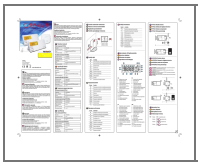
Q: How do I reset the thermostat to factory settings?

A: Refer to the user manual for specific instructions on resetting the thermostat to its factory settings.

Q: What is the wireless frequency range of the thermostat?

A: The thermostat operates on a frequency range of 868.0 MHz – 868.6 MHz.

Documents / Resources

	SALUS CONTROLS 091FLv2 Digital Programmable Thermostat [pdf] Instruction Manual 091FLv2, 091FLRFv2, 091FLv2 Digital Programmable Thermostat, Digital Programmable Thermostat, Programmable Thermostat, Thermostat

References

- Choose your country – Salus
- User Manual