

programmable energy-saving radiator thermostat

# User manual and Guarantee



## By the way...

Do you already know about PROGmatic? – You can programme SPARmatic Zero by hand or you can use our convenient programming stick to copy your personally specified heating and economy times onto all your EUROtronic energy-saving radiator thermostats at your home which have a programming port in a matter of seconds.

\*PROGmatic is available from specialised stores and at: www.eurotronic.org

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Please read the user manual before you place the thermostat. Keep the documents for later questions and provide them if you pass the thermostat on to other persons.

### Scope of delivery

- 1 SPARmatic Zero
- energy saving radiator thermostat
- 1 User manual
- 1 Connector
- 3 Adapters

### Application as directed

By purchasing the SPARmatic Zero energysaving radiator thermostat you own a programmable radiator thermostat which can be used for temperature regulations in enclosed rooms and therefore, it can contribute to the reduction of heating energy. – Please use the thermostat only for this purpose.

The EUROtronic programming port is intended ONLY for our EUROtronic programming stick. **Never** connect other devices with the programming port!

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# Display and control elements

- 1 Heating times
- 2 Child lock active
- 3 Battery low
- 4.a Travel function active
- 4.b Comfort temperature active
- 4.c Economy temperature active €
- 4.d Window/freeze protection function active 栄
- 5. AUTO or MANU mode active
- 6.a Button MENU leads to the main menu (starting from regular display); within the menu one keypress leads to the previous level
- 6.b Button OK confirmation of setting
- 6.c Button ⊚ timer function
- 7 Button + and -

# Set up menu

By pressing MENU you will arrive at the set up menu. Please choose one of the items with the Button + or  $\bigcirc$ . With  $\bigcirc$ K you can select one menu item and with the Button + or  $\bigcirc$  they can be adjusted. The button  $\bigcirc$ K confirms the setting. The button  $\bigcirc$ MENU leads to the previous level.

MODE	to select the mode
	AUTO = automatic mode
	MANU = manual mode
PROG	setting of time programme
TEMP	setting of comfort and
	economy temperature
ZEIT	setting of date and time
FENS	window function
RES	reset of the device to factory

RES reset of the device to factory preset starting of a new adaptation

to adjust the valve URLH travel function

installation function (Please only attach the controller to the coupling ring in

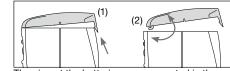
this position)

OFF5 adaptation of temperature to the room situation

STBY standby function

# Inserting/replacing batteries

Remove the battery lid by pressing the battery lid upwards (1) at the highlighted point and then taking it out (2).



Then insert the batteries as represented in the appliance. Do not use accumulators!
Ensure that the polarity is correct!

### Attention:

Never recharge batteries, danger of explosion! Do not short-circuit batteries! Do not disassemble batteries! Take low batteries out of the device immediately. Keep batteries away from extreme warming – danger of leakage! Do not apply used and new batteries together. If needed, clean the battery and the contacts before using them. Keep the batteries away from children. When getting in touch with battery acid instantly irrigate the affected parts with clear water and call a doctor.

# Setting date and time

After inserting the batteries for the first time the date will flash on the display. Now, date and time can be set. Set date with the Button + or -.

Confirm with OK.

Set month with the Button + or - Confirm with OK.

Set day with theButton + or -.

Confirm with OK.

Set hour with the Button + or -.

Confirm with OK.
Set minute with the Button + or -.

Confirm with OK – That's it.

On the display PREP will be shown. Now, the motor will completely move to the installation position in order to make the installation easier. As soon as SPARmatic Zero is ready for installation INST will be shown on the display.

You can also set date and time via the menu item ZEIT later on. But in case of that, SPARmatic Zero does not move to the installation position.

In case of replacing batteries, the stored time programme will remain active. You should check the specified time to ensure that.

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## Installation

SPARmatic Zero can be quickly and easily mounted on all common valves (see adapter table). It can be installed without grime and water spots because the heating circuit is not interrupted. valve - coupling ring valve - adapter - coupling ring



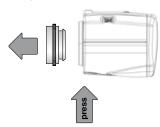


- 1. Turn the manual thermostat head up completely, loosen the fastening and pull the thermostat off of the valve.
- 2. Use an appropriate adapter, if required, and push it onto the valve.
- 3. Screw the connector on the valve or the adapter.
- 4. Now, you put SPARmatic Zero on the connector until it noticeably clicks into place.

ATTENTION: It must be possible to insert SPARmatic Zero without applying force, ensure that the appliance is in the "INST" or "EIN" position.

Additional information about the different adapters are provided on page 20 or at: www.eurotronic.org → In case of a later installation, please switch in the menu to INST **before** you install the device. Herewith the installation is facilitated. Only mount it in this position.

# **Dismounting**



→ To remove SPARmatic Zero remove this at the EIN. position, wait for a short period and then press on the unlocking device to detach the quick-release catch. Then pull the SPARmatic Zero from the valve.

Adaptation

Initial installation: Press the button OK until RDRP appears on the display so that SPARmatic Zero will be able to start its adaptation. The device will adapt itself to the stroke of your valve body. To do this the valve will now be opened and closed several times to store the end points. In some cases this process can take a few minutes. After successful adaptation it returns to normal mode.

- → Should adaptation become necessary again, e.g. if your radiator does not cool down in the RUS-Position, please press in the menu the button RDRP until adaptation starts again.
- → If the mistake E2 is shown on the display place SPARmatic Zero onto the radiator valve and then take the batteries out for a short time in order to execute a reset.

**Basic operating modes** 

MANU-mode

In the MANU-mode SPARmatic Zero adjusts to the manually specified temperature.

AUTO-mode

In the AUTO-mode SPARmatic Zero changes between to temperatures according to the time programme that has been set:

★ comfort temperature (factory preset 21°C) 

The heating and economy times can be specified via the adjustable time programme. It is possible to set 8 switch points (4 heating and 4 economy times) per day at the most. SPARmatic Zero has the following factory preset:

Heating time:

Heating with comfort temperature (factory preset: 1st heating time at 07:00)

Economy time:

lowering to economy temperature (factory preset: 1st economy time at 22:00)

# Setting heating and economy

With SPARmatic Zero it is possible to set 4 heating and 4 economy times per day – one for each day or one for a block of several days.

TAG1 to TAG7 represent the weekdays from Monday to Sunday, Additionally, the corresponding days are shown as abbreviation below the menu bar on the display.

### **Block construction:**

T1-5 = same programme from Monday to Friday T1-6= same programme from Monday to Satur-

T1-7= same programme from Monday to Sunday For non-programmed days the factory preset remains active.

# Setting of an individual programme:

Press MENU. Select the menu item PRO5 with the Button + or -. Press OK. TR5 for Monday is shown on the display. Select day/block with the Button (+) or (-). Confirm with OK . Set the beginning of the 1st heating time (symbol 1) with the Button (+) or (-). Confirm with (OK). Set the beginning of the 1st economy time (symbol () with the Button + or -. Confirm with OK.

Now, if desired, a 2<sup>nd</sup>, 3<sup>rd</sup> or 4<sup>th</sup> heating/economy time can be entered.

→ If you do not want to set a further heating/ economy time confirm ..---" with OK

The next day for programming is shown on the display.

- → If you do not want to enter a further day, leave the menu with MENU. If the temperature is shown on the display the programming is finished.
- → Within the blocks you can also overwrite single days with differing times.

# Setting comfort and economy temperature

Press MENU). Select the menu item TEMP with the Button + or -. Confirm with OK. Set comfort temperature with the Button (+) or (-). Confirm with OK. Set the economy temperature with the Button (+) or (-). Confirm with OK.

Area RUS: 8°C, freeze protection function is active Area EIN: valve is completely open

→ By the way: Maximum energy saving can be obtained with an economy temperature which is about 5°C below the comfort temperature.

# Manual operation

With the Button + or - an adaptation of the room temperature is possible at any time. In the AUTO-mode it remains active until the next switch point is reached. Now, the usual programme becomes active again.

### **Further functions**

### Timer function

The timer function is selected with the timerbutton 🕒. With this function an user-defined temperature for a programmable period can be entered. This can be very useful in case of a party, for example, Press S. First, the time for which the time programme has been deactivated is shown. Confirm with OK. Now, the desired temperature can be set. Confirm with OK.

If the perceived temperature significantly differs from the set thermostat temperature a temperature set up can be executed.

Press MENU). Select the menu item OFF5 with the Button + or -. Confirm with OK. The degree setting []. [] will flash on the display. Now, set up the desired adaptation for the temperature (from -5 up to +5°C) with the Button + or -. Confirm your entry with OK. The temperature display does not change!

### Window function

If you open a window and consequently the temperature drops significantly, SPARmatic Zero will automatically close the heating valve in order to save energy. The display will show \*. Afterwards. SPARmatic Zero will resume normal operation. For the set up select FEN5 in the menu. Confirm with OK. First, the sensibility is selected with the Button + or - (HI5H = high sensibility, TIID = medium sensibility (factory preset), LOW = low sensibility). Confirm with OK Now, you enter the time (10 min (factory preset) -60 min) for which the valve should remain closed. Confirm with OK.

### Travel function

For the time you are absent you can select an individual temperature. After this period the originally defined programme becomes active again.

Press MENU). Select the menu item LIRLR. Confirm with OK (suitcase 1 appears on the display). Select with the Button + or - the end of the travel function (= date of the recommencement of the regular heating times). Confirm with OK. Set the time and confirm with the button OK. The signal RUS appears on the display. Now set the temperature and confirm with OK. 1 appears on the display. With MENU the function can be deactivated.

### Child lock

You can lock SPARmatic Zero to protect the device from unauthorized activation. Press the buttons ok + o at the same time for about 2 seconds until the signal appears on the display in order to lock the device. By using this button combination again the symbol disappears and you release the lock.

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Heating pause - Closing the SPARmatic Zero

Press MENU. Select the menu item MODE with the Button + or -. Confirm with OK. Select MRNU and confirm with OK. Set the temperature on the display to RUS. The valve is now closed and will work without a time programme. The calcification protection function remains active once a week. After the heating pause you switch in the menu to the AUTO-mode and the personally set programme will be executed again.

### LCD standby indicator

Press MENU. Select the menu item 5TBY with the Button + or -. Confirm with - Select EIN/ RU5. After about 30 seconds, the LCD indicator switches into standby mode. By pressing any button, the display will be activated again. (by removing the battery, standby mode will be reseted). Increases the battery life time.

### Going back to factory preset/All reset

Press MENU. Select the menu item RE5 with the Button + or -. Confirm with OK. OK flashes, confirm with OK. SPARmatic Zero is reset again. Now, proceed as described for the initial operation (see p. 8).

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Freeze protection and calcification protection function are active automatically:

### Freeze protection function

If the temperature drops below 6°C, SPARmatic Zero opens the valve until the temperature again rises above 8°C. This prevents the radiators from freezing.

### **Calcification protection function**

To prevent radiator valves from calcifying SPARmatic Zero is submitted to a calcification protection programme once a week on Friday mornings.

# Cleaning and used devices

### Cleaning

To clean the SPARmatic Zero use only a dry or lightly wet cloth. Avoid chemical solvent – it can probably damage the device.

### Used devices

Do not throw old devices and packaging into the household waste. They can be recycled. You receive further information at your local government.

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# **Adapters**

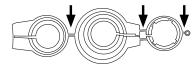
Heimeier, Junkers Landys+Gyr, MNG, Honeywell, Braukmann threadmeasure dimension of M 30x1,5

Danfoss RAV (accompanying pin must be plugged on the valve tapped)

Danfoss RA

Danfoss RAVL

Please remove all the connection pieces of the plastic adapters before you use one of the attached adapters!



Please completely remove the connection rods highlighted in grey prior to assembly the adapter. You can find additional brass adapter models that are subject to a charge: www.eurotronic.org

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# Help

	Problem	Cause	Solution
		Batteries do not have enough power.	Replace batteries.
	Heating element does not warm up.	Is the boiler water temperature O.K.? Valve does not open, is it calcified after the summer pause / heating pause?	Adjust the temperature of the boiler water. Remove the SPARmatic Zero, move the valve stem back and forth per hand or with a tool.
	Heating ele- ment does not cool down.	Valve does not close completely. It may be that the closing point of your valve seat has shifted.	Adapt again (see "Adapt- ing") Move the valve stem several times by hand, it may be that adaptation is impossible because your valve is calcified or the seat no longer performs its function.
	Pressure piece falls out (This can also cause an E1-error)	Due to an endless- thread the pressure piece, which is situ- ated at the bottom, can fall out if the device has not been affixed on the valve.	Put in the pressure piece. The device can be adapted by pressing the with pressing the pressing the pressing and inserting the batteries. The endless-thread is rotating now and fixes the pressure piece again. Just install it to the radiator and adapt it once again.
	E1 - E3	By pressing any key th	

re-started

Problem	Cause	Solution
ΕI	No adaptation possible. SPARmatic Zero is not installed to the heater.	Is the installation OK? Install SPARmatic Zero to the heater.
E2	Valve stroke is too short.	Open and close the valve several times manually or replace the batteries.
E3	Motor movement is not possible.	Does the valve stem move freely?

# **Declaration of Conformity**

The Declaration of Conformity is provided at: www.eurotronic.org

# Guarantee

The three-year warranty begins on the day of purchase. Please keep the receipt as evidence of purchase in the future. During the guarantee period, defective radiator thermostats may be sent to the service address below. Please ensure sufficient postage is paid. A new or repaired device will then be sent to you free of charge. Following expiry of the guarantee, you may still send the defective device to the address below for repairs. Please ensure sufficient postage is paid. Repairs carried out after the guarantee period are subject

to a charge. Your legal rights are not affected by this guarantee.

There is no new warranty period starting when repairing or replacing the device. Please note that we only grant warranty on the function of the device. We will not grant warranty for the interaction between the thermostat and the bottom part of the valve. The technical data is only valid for the use of the following valves: Heimeier, Junkers Landys + Gyr, MNG, Honeywell, Braukmann (measure of thread M330 x 1,5), Oventrop (M30 x 1,5) Danfoss RA, RAV and RAVL. Please see the combinations of the devices on our website (www.eurotronic.org/Adapter list)

EUROtronic does not issue a guarantee when using the thermostat with valves which are not mentioned above.

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\*subject to a charge

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