EN

EasyStart T
Operating instructions.



Comfort Timer
with 7-day preset capability.

22 1000 32 88 05
03.2009

Eberspächer
A world of comfort

Contents

Introduction

- Please read first ... 3
- Safety information ... 3
- General information ... 3
- Purpose ... 3

Overview

- Timer ... 4
- Displays ... 5

Operation and Adjustment

- Basic operation and adjustment rules ... 6
- Activate timer ... 7
- Set weekday, time and operating time ... 8
- Switch on heater ... 9
- Switch off heater ... 10
- Switch on ventilation ... 11
- Switch off ventilation ... 12
- General notes on "ventilate" mode ... 13
- AD Switch on add-on unit ... 14
- AD Switch off add-on unit ... 15
- AD General information on the add-on unit ... 15
- **P** General information on programming the preset time ... 16
- **P** Program preset times ... 17, 18
- **P** Delete preset times ... 19
- Set heating level – of water heaters ... 20
- Set heating level – of air heaters ... 21

What to do if …?

- Displays ... 22, 23
- Preset time not programmable / Display disappears ... 23

Service

- Hotline ... 24

Please read first

Please ensure you read through these operating instructions carefully before you start to set and use the timer.
These operating instructions contain important information, which you require to set and use the timer.
Please store these operating instructions in a safe place so you can refer to them at a later date.

Safety information



Danger!

– All information and notes, in particular the safety information in the heater's technical description must be observed at all times!
– The heater must be switched off when refuelling.
– Only use original spare parts.

General information

The timer has a simple control structure. With only 4 keys, it is possible to set all functions, change them if necessary and program the preset times.
We recommend use of the temperature sensor, available as an option, in order to be able to utilise all the timer's functions.
If a vehicle was disconnected from the power supply (battery disconnected) and the power supply is reinstated, the time appears when the timer is activated. This must then be adjusted. See description on page 8 "Set weekday, time and operating time".
Operation of the timer is described in detail from page 6.

Purpose

The EasyStart T timer is used to switch on / off and preset the switching on time, operating time and operating mode of the heater and / or add-on unit installed in the vehicle.

Please note!

Improper use and use outside the specified area of use cancels all liability and warranty.

Overview

Timer

The timer can be used to make the settings and adjustments necessary for operation of the heater and to switch various units on and off.

Please note!

The number of symbols and displays differs depending on the installed heater and feature options.

Menu bar

Display bar

Program bar

Display of the active program memory and corresponding weekday



Control key – Back

Select a function in the menu bar and adjust values

Control key – Next

Select a function in the menu bar and adjust values

Activation key

- Timer – ON / OFF
- Switch over in the display bar between
  - Temperature
  - Time
  - Operating time
  - Temperature setpoint value
- Switch back to the menu bar

OK key

Select the flashing symbol or confirm inputs

Covering cap and fixing screw

Status display

Displays

Menu bar

- Heater ON / OFF
- Ventilation ON / OFF
- AD Add-on unit ON / OFF
- P Program preset time
- Set the time / operating time
- Set heating level

Display bar

- 15:48 Numerical and text displays
- **AM** Time in the morning (English)
- **PM** Time in the afternoon (English)
- **°C** Temperature in degrees Celsius
- **F** Temperature in degrees Fahrenheit
- ∞ Unlimited operating time
- Heating level set

Program bar

- **1** Preset memory 1
- **2** Preset memory 2
- **3** Preset memory 3
- **Mo** – **So** Weekdays
- **Mo** – **Su** English weekdays

Status display

- Heating mode active
- Ventilation mode active
- AD Add-on unit active

Please note!

- If the program number is underlined, e.g. **1** this program will be executed next.
- "Ventilate" mode is not possible in all heater models.
- The add-on unit function AD is not possible with all heater models and must be activated by the installation workshop.

Operation and Adjustment

Basic operation and adjustment rules

Activate timer

If the display is not lit, the timer must be activated before each use.
The timer must be activated before each operation or adjustment.
To do this, press ⏻ until the menu bar appears in the display, then release the key and continue with the operation or adjustment (see also page 7).

Flashing symbols



Each flashing symbol in the menu, program and display bar can be changed with ▲ or ▼ and confirmed with OK.

Confirm input

Settings and changes must always be confirmed with OK, otherwise they are lost (exception: operating time).

Terminate / quit settings

You can use ⏻ to terminate or quit entering settings in a menu.

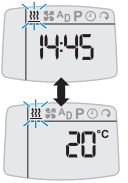
Display disappears

If the vehicle lighting is switched off, no heater or additional unit is switched on, or no setting or actuation is made, the display disappears within 10 seconds, i.e. the timer switches to idle state.
For renewed input you must press ⏻ again.

Set operating time
(one-off or permanent)

The operating time can be individually set with ▲ or ▼.
In preset mode from 10 – 120 minutes.
In immediate operation from 10 – 120 minutes or continuous operation ∞.
See pages 8, 9, 11 and 14 for a description.

Display if a temperature sensor is connected.



If the optional temperature sensor is connected the time and temperature can be alternately displayed by pressing ⏻.
In the settings and operations described below it is assumed that a temperature sensor is connected.

Activate timer

Display



press until the menu bar appears in the display and the temperature is displayed.

The timer is activated.

Please note!

- Possible displays such as Err and INI are described in the chapter “What to do if …?” from page 22.
- If the heater or additional unit is in use or the vehicle lighting is switch on (terminal 58), the timer does not have to be activated.

The following actions are possible:



- Switch from temperature display to time and back, press .
- Select functions in the menu bar with or , confirm selection with OK.
  The further procedure is described in the relevant section for the selected function.

Operation and Adjustment

Set weekday, time and operating time

Activate timer with (see page 7).

Display

Select symbol with or .
Confirm selection with .



Select weekday with or .
Confirm selection with .



Set hours with or .
Confirm setting with .



Set minutes with or .
Confirm setting with .



Permanently set operating time for immediate operation with or .
Confirm setting with .



The set, current time is displayed.
The adjustment is completed.



The following action is possible:

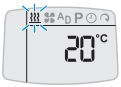
- Select functions in the menu bar with or , confirm selection with .
  The further procedure is described in the relevant section for the selected function.

Switch on heater

Activate timer with ⏻ (see page 7).

Display

Select symbol with ▲ or ▼.
Confirm selection with OK.



Heater is switched on.

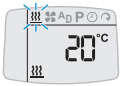
The following actions are possible for the operating time:

- The operating time can be accepted with OK.
- The operating time can be changed as a one-off with ▲ or ▼ and then confirmed with OK.

Please note!
The operating time last displayed is adopted without confirmation.



- ⏻ press to display the temperature, the last saved operating time remains valid.



The following actions are possible:

- Call up display.

  ⏻ press, the current heating level is displayed (for air heaters only)

  ⏻ press to display the time.

  ⏻ press to display the operating time. See above for adjustment.



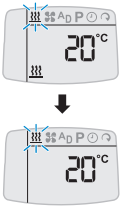
- Select functions in the menu bar with ▲ or ▼, confirm selection with OK.

The further procedure is described in the relevant section for the selected function.

Switch off heater

Select symbol with or .
Confirm selection with .

Display



Heater is switched off.

The following actions are possible:

- Switch from temperature display to time and back, press .
- Select functions in the menu bar with or , confirm selection with .
  The further procedure is described in the relevant section for the selected function.



Switch on ventilation – only possible if symbol is displayed in the menu bar (for general information, see page 13).

Activate timer with (see page 7).

Display

Select symbol with or .
Confirm selection with .



Ventilation is switched on.

The following actions are possible for the operating time:



- The operating time can be accepted with .
- The operating time can be changed as a one-off with or and then confirmed with .

  Please note!

  The operating time last displayed is adopted without confirmation.
- press to display the temperature, the last saved operating time remains valid.



The following actions are possible:

- Call up display.
  press to display the time.



  press to display the operating time.
  See above for adjustment.



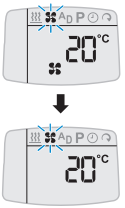
- Select functions in the menu bar with or , confirm selection with .
  The further procedure is described in the relevant section for the selected function.

Operation and Adjustment

Switch off ventilation– only possible if ✣ symbol is displayed in the menu bar (for general information, see page 13).

Select symbol ✣ with ▲ or ▼
Confirm selection with OK .

Display



Ventilation is switched off.

The following actions are possible:

- Switch from temperature display to time and back, press ⏻.
- Select functions in the menu bar with ▲ or ▼, confirm selection with OK
  The further procedure is described in the relevant section for the selected function.



General notes on ”ventilat“ mode

If the symbol is not displayed in the menu bar, „ventilate“ mode is only possible in the heater for the heater models under certain prerequisites:

- With the water heaters *HYDRONIC* (B / D 4 W S, B / D 5 W S, B / D 4 W SC and B / D 5 W SC): the “heat / ventilate” switch (Order No. 22 1000 31 89 00) must be installed.
- With the air heaters AIRTRONIC / AIRTRONIC M: the mini controller (Order No. 22 1000 32 07 00) must be installed.

Please note!

“Ventilate” mode is not provided for upgraded independent heaters.

Select „ventilate“ or „heat“ for the heater models listed above and switch on.

Use the “heat / ventilate” switch or the mini controller to select “ventilate” or “heat” mode and then switch on the heater with the timer.

Switching between “ventilate” and “heat” mode

If you switch mode while “ventilate” or “heat” is running, you must use the timer to switch of the heater (see page 12 and 10).

If the heater is switched off in “heat” mode the heater runs on. Once this after-run has ended use the “heat / ventilate” switch or the “mini controller” to switch to “ventilate” mode. Then use the timer to switch the heater back on.

After the heater has been switched off in “ventilate” mode, you can immediately switch to “heat” mode using the “heat / ventilate” switch or the “mini controller”. Then use the timer to switch the heater back on.

Switch of “ventilate” or “heat” mode

Use the timer to switch off the heater (see page 12 resp. 10).

Please note!

- “Ventilate” or “heat” mode **must be selected before switching on** the heater.
- In the “ventilate” switch setting of *HYDRONIC* water heaters the vehicle blower is directly controlled by bypassing heat mode and in *AIRTRONIC* air heaters the heater’s blower is bypassed in the same way.
- If you have any further questions regarding “ventilate” mode please contact your installation workshop or call the service phone number (see page 24).

AD Switch on add-on unit – only possible if AD symbol is displayed in the menu bar (for general information, see page 15).

Activate timer with ⏻ (see page 7).

Display



Select symbol AD with ⌐ or ¬.
Confirm selection with OK.

Add-on unit is switched on.

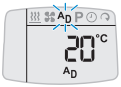


The following actions are possible for the operating time:

- The operating time can be accepted with OK.
- The operating time can be changed as a one-off with ⌐ or ¬ and then confirmed with OK.

Please note!
The operating time last displayed is adopted without confirmation.

- ⏻ press to display the temperature, the last saved operating time remains valid.



The following actions are possible:

- Call up display.
  ⏻ press to display the time.



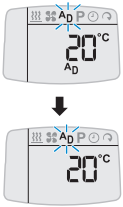
  ⏻ press to display the operating time.
  See above for adjustment.



- Select functions in the menu bar with ⌐ or ¬, confirm selection with OK.
  The further procedure is described in the relevant section for the selected function.

AD Switch off add-on unit– only possible if AD symbol is displayed in the menu bar.

Display



Select symbol AD with ◄ or ►.
Confirm selection with OK.

Add-on unit is switched off.

The following actions are possible:

- Switch from temperature display to time and back, press ⏻.
- Select functions in the menu bar with ◄ or ►, confirm selection with OK.
  The further procedure is described in the relevant section for the selected function.



General information on the add-on unit

An add-on unit can be e.g. a second heater or parking air conditioning.
It is also possible to combine a heater with a blower. The blower is used to circulate air within the inside of the vehicle.

The heaters or blower can be operated simultaneously or independently of each other.
The “add-on unit” function must be activated by the workshop.

General information on programming the preset time

The timer can be used to program 3 preset times.
The 3 preset times can either all be spread over one weekday or be spread between different weekdays.
In water heaters and if a temperature sensor is connected to the timer the heater start is automatically calculated depending on the measured room temperature and the selected heating level (ECO or HIGH). The operating time can be between 5 and 60 minutes before the programmed departure time, whereby operation is always stopped 5 minutes after the programmed departure time. Therefore, the minimum possible operating time is 10 minutes and the max possible operating time is 65 minutes.
In this case, the operating time set in the "set time" menu (page 8) is ineffective.
In all other configurations the start takes place according to the preset operating time.

Please note!

- The preselected times are always **departure times,** even if runtime calculation is deactivated.
- You cannot program more than 3 preselection times.
- The maximum operating time of 65 minutes for automatic runtime calculation is a factory setting. If necessary, this can be reduced by the installation workshop to a minimum of 15 minutes.

Identical preset times
If several identical preset times are programmed for a specific weekday in programs 1, 2 or 3 the last entered preset time is valid. When the timer is activated, the identical preset times saved are deleted.
If identical preset times are programmed for different weekdays there is not conflict.

Overlapping of preset times
Example:
You have set the "Heater" operating mode on a weekday for your departure time at 13 hrs. At the same time the "Ventilation" mode has been programmed for the same day for 12.45 hrs and with an operating time of 15 minutes. What happens?

The timer calculates the start of heating for the "heater" mode which, depending on the ambient temperature measured can lie between 5 and 60 minutes before the programmed departure time. If the calculated heater start is after 12.45 hrs, the vehicle is ventilated between 12.30 hrs and 12.45 hrs and is then heated.
If the calculated heater start is before 12.45 hrs, the vehicle is heated until 12.30 hrs, then the heater is stopped and the heater switches to "ventilation" mode. After the set "ventilation" mode operating time has expire the heater switches off.

P Program preset times

Activate timer with ⏻ (see page 7).

Display

Select symbol **P** with ▲ or ▼.
Confirm selection with OK.



Select preset memory **1**, **2** or **3** with ▲ or ▼ and confirm with OK.



Select weekday **Mo – Su** with ▲ or ▼ and confirm with OK.



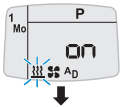
Set hours with ▲ or ▼ and confirm with OK.



Set minutes with ▲ or ▼ and confirm with OK.



Select the required function ♨, ✣ or AD with ▲ or ▼ and confirm with OK.



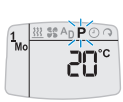
Continued on page 18

P Program preset times

The operating time is only displayed if (heat with deactivated runtime calculation), or A_D is selected and can be accepted with OK or adjusted with ▲ or ▼ and confirmed with OK.

Display





The adjustment is completed.

Please note!

The assigned preset memory locations appear in the display. The next preset memory to be activated is underlined in the display and the corresponding weekday is also displayed.

The same procedure is required to program preset times in the preset memory 2 and 3.

The following actions are possible:

- Switch from temperature display to time and back, press ⏻.
- Select functions in the menu bar with ▲ or ▼, confirm selection with OK.
  The further procedure is described in the relevant section for the selected function.



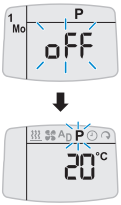
P Delete preset times

The steps for deleting preset times are the same as for adjusting / setting the preset time, until the current function flashes in the status bar.

or press until oFF appears in the display.

Confirm with OK.

Display



The preset time is deleted.

The following actions are possible:

- Switch from temperature display to time and back, press .
- Select functions in the menu bar with or , confirm selection with OK.
  The further procedure is described in the relevant section for the selected function.



Set heating level – of water heaters

In water heaters you can choose between the ECO heating level (normal heating) and HIGH (comfort heating).
The selected heating level is required to calculate the “heat” operating time depending on the measured ambient temperature.

Please note!

The heating levels ECO and HIGH are only effective in conjunction with a programmed preset time.

Activate timer with (see page 7).

Select symbol with or .
Confirm selection with .

Select ECO or HIGH heating level with or and confirm with .

The selected heating level (e.g. HIGH) is set.

Display



Set heating level – of air heaters

Air heaters can be individually set to a heating level of 8 to 36 in immediate and preset mode.

Please note!

Heating levels 8 to 36 only approximately correspond to a temperature reading and therefore may differ from the actual temperature in the vehicle.

Activate timer with (see page 7).

Anzeige im Display



Select symbol with or .
Confirm selection with .

Change the heating level with or and confirm with .

The new heating level is set.

What to do if ...?

Displays



Description	Remedy
A fault occurs in the heater during operation (e.g. fuel shortage or interruption in the diagnostics cable).	See heater's installation instructions for troubleshooting advice.



Description	
Automatic hardware detection is currently active.	
Possible cause	**Remedy**
Timer has been disconnected from the voltage and reconnected.	Wait until the automatic hardware detection has finished.



Description	
The "Set timer" display appears after the timer is activated.	
Possible cause	**Remedy**
The timer's power supply was interrupted. All programmed preset times have been deleted.	Set time (see page 8).



(only for combinations of 2 controls EasyStart T / T, R+ / T, R / T)

Description	
No communication between the controls.	
Possible cause	**Remedy**
Overlapping during data transfer	Repeat operator action.

Anzeigen



(only for combinations of 2 controls EasyStart R+ / T, R / T)

Description
Radio remote control is in teach mode.

Possible cause	Remedy
Timer has been disconnected from the voltage and reconnected..	Wait until teach mode has ended.

Preset time cannot be programmed / display disappears

It is not possible to program a preset time.

Possible cause
ADR mode is active. It is not permitted to program preset times in this mode (**P** is not available in the menu bar).

Display disappears.

Possible cause	Remedy
Terminal 58 (lighting) not connected.	Connect terminal 58 (lighting).

Please note!

If you are unable to remedy the fault or error, please contact an authorised JE workshop or dial the service phone number given on page 24.

Service

Hotline

If you have any technical question, a problem with your timer or the heater, dial the following service phone number:

Telephone hotline
Phone 0800 / 12 34 300

Fax hotline
Fax 01805 / 26 26 24

Outside of Germany, please contact the respective national Eberspächer service agent.

www.eberspaecher.com

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