

EasyStart R⁺

Operating instructions.



**Comfort radio remote control
with integrated timer
for parking heaters and more.**



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Please read first

Before you start to set and use the radio remote control, please ensure you carefully read through these operating instructions.

These operating instructions contain important information, which you require to set and use the radio remote control. Please store these operating instructions in a safe place so you can refer to it at a later date.

Safety information



Important! Danger!

- Only the battery cover of the mobile unit may be opened.
- The battery and battery cover **must be kept out of reach of children** – swallowed small parts.
- Before washing clothing, remove the mobile unit from pocket.
- Protect the mobile unit from adverse effects (impacts, extreme temperatures, moisture, rain, liquids).
- The mobile unit and heater must be switched off when refuelling.
- Dispose of the battery and mobile part according to the statutory regulations.
- Improper use and use outside the specified area of use cancels all liability and warranty.
- Only use the recommended battery and original spare parts.
- All information and notes, in particular the safety information in the heater's technical description must be observed at all times!

Statutory regulations



Return / disposal of electrical and electronic equipment in accordance with Art 4 Paragraph 1 Alt Fz-VO (End-of-Life Vehicles Regulations)

As a part of the vehicle, when the vehicle is handed into a recognised waste collection body, a recognised returns body or a recognised dismantling firm, the radio remote control must be placed in the vehicle for return in accordance with Art 4 Paragraph 1 Alt Fz-VO.

Purpose

The bidirectional radio remote control EasyStart R+ (mobile unit in conjunction with stationary unit) is used for remote controlled switching on / off and presetting the switching on time, operating time and 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.

Introduction

General information

The mobile unit of the radio remote control 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.

The switching pulses of the mobile unit have an outdoor range (direct visual contact) of up to 1000 metres. External interference, local conditions and dense building development in the surrounding area shorten the range.



The mobile unit should always be pointed towards the vehicle when activated or for data transmission. Depending on use and ambient effects however,

displays can appear which are described in the chapter "What to do if ...?" from page 23.

If you and the mobile unit are outside the range you do not have to do without the heater.

The preset mode is then available as an alternative.

If a vehicle was disconnected from the power supply (battery disconnected) and the power supply is reinstated, the time appears when the mobile unit is activated. This must then be adjusted. See description on page 9 "Set weekday, time and operating time".

Operation of the mobile unit is described in detail from page 7.



Mobile unit of the radio remote control

Please note!

The mobile unit of the radio remote control can be used to make the necessary adjustments for operation of the heater and various units can be switched on and off.

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

Back control key

Select a function in the menu bar and adjust values

Activation key

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



Status display

Next control key

Select a function in the menu bar and adjust values

OK key





Select the flashing symbol or confirm inputs

Key fob

Overview

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




Program bar

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





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.

Display bar

-  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 is set

Status display


-  Heating mode active
-  Ventilation mode active
- AD** Add-on unit active
-  Communication between mobile unit and stationary unit
-  Battery charge status




Basic operation and adjustment rules

Activate mobile unit




Before each operation or setting, a connection must be established between the mobile unit and the stationary unit.

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 8).

Switch off mobile unit / protect mobile unit against involuntary actuation


If  is pressed for a long time the display disappears, i.e. the mobile unit is switched off and is therefore also protected against involuntary actuation.

Flashing symbols

Each flashing symbol in the menu, program and display bar can be changed   and confirmed .



Confirm input


The settings and changes must always be confirmed with , 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 a setting/adjustment or confirmation is not made within 10 seconds the display disappears, i.e. the mobile unit returns to its normal condition.

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 9, 10, 12 and 14 for a description.

Display during data transmission

During data transmission (display SEND) the LED display lighting switches off.




After the data transmission has finished the LED lighting is switched back on.



Operation and Adjustment


Activate mobile unit

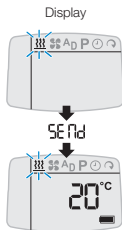
Use the mobile unit to establish the connection with the stationary unit.

-  press until the menu bar appears in the display. The release the  key. The symbol  and text **SEnd** appear briefly, then the temperature is displayed.





The radio remote control is activated.

Please note!

- If the key  is not released after the menu bar appears the mobile unit switches itself off.
- During data transmission (display **SEnd**) the display lighting switches off. After the data transmission has finished the display lighting is switched back on.
- Possible displays such as **COBd**, **COmP** and **Err** are described in the chapter "What to do if ...?" from page 23.



The following actions are possible:

- Switch over 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.





⌚ Set weekday, time and operating time

Activate mobile unit with (see page 8).

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.



Operation and Adjustment

Switch on heater





Activate mobile unit with  (see page 8).

Select symbol  with  or .

Confirm selection with .


Heater 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.

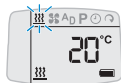
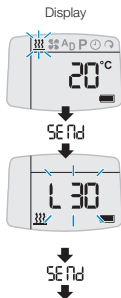
 press, the current heating level is displayed (in air heaters only).

 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 .

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



Switch off heater





Activate mobile unit with  (see page 8).

Select symbol  with  or .

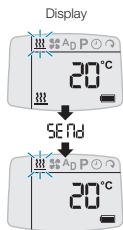
Confirm selection with .

Heater is switched off.


The following actions are possible:


- Switch over 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.



Operation and Adjustment

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





Activate mobile unit with  (see page 8).

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:

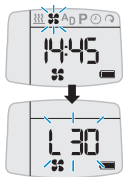
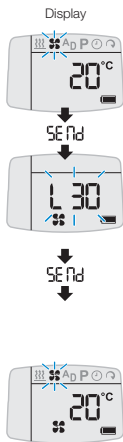
- Call up display.

 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 the  symbol is displayed in the menu bar (See page 13 for general information).





Activate mobile unit with  (see page 8).

Select symbol  with  or .

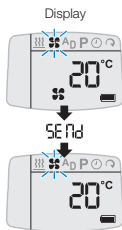
Confirm selection with .

Ventilation is switched off.


The following actions are possible:

- Switch over 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.



General information on the "ventilate" mode

If the symbol  is not displayed in the menu bar, "ventilate" mode is not possible for the heater models used.

In "ventilate" mode of *HYDRONIC* water heaters the vehicle blower is directly controlled by by-passing heating mode and in *AIRTRONIC* air heaters the heater's blower is directly controlled by by-passing heating mode.


Please note!

- "Ventilate" mode is not provided for upgraded independent heaters.
- If you have any further questions regarding "ventilate" mode please contact your installation workshop or call the service phone number (see page 26).



Operation and Adjustment

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





Activate mobile unit with  (see page 8).

Select symbol **AD** with  or .

Confirm selection with .


Add-on unit is switched on.

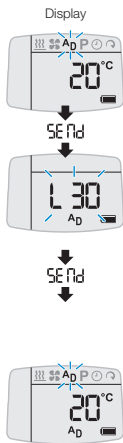
The following actions are possible for the operating time:

- 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:

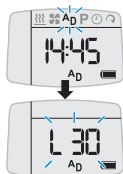
- Call up display.

 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.





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





Activate mobile unit with  (see page 8).

Select symbol AD with  or .

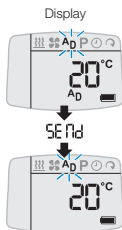
Confirm selection with .

Add-on unit is switched off.

The following actions are possible:

- Switch over 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.



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 mobile unit of the radio remote control 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 a temperature sensor connected to the stationary unit the heater start is automatically calculated depending on the measured ambient 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.

The operating time set in the "set time" menu (page 8) is ineffective in this case. In all other configurations the start takes place according to the preset operating time.

Please note!

- The preset times are always departure times, even if runtime calculation is deactivated.
- You cannot program more than 3 preset 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 mobile unit of the radio remote control is activated the saved identical preset times are deleted. If identical preset times are programmed for different weekdays there is no conflict.

Overlapping of preset times

Example:

You have set "heat" mode for your departure time on a weekday to 13 hrs. At the same time "ventilate" mode has been programmed for 12.45 hrs on the same day and with an operating time of 15 minutes. What happens?

The radio remote control calculates the heater start for "heat" 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 "ventilate" mode. After the set operating time for "ventilate" mode has expired the heater switches off.



P Program preset times

Activate mobile unit with (see page 8).

Select symbol **P** with or .

Confirm selection with .

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

Select weekday **Mo – Su** with or and confirm with .

Set hours with or and confirm with .

Set minutes with or and confirm with .







Select the required function , or **AD** with or and confirm with .



Continued on page 18

Operation and Adjustment

P Program preset times

When selecting  (heater with deactivated runtime calculation),  or **A_D** the operating time is displayed and can be adopted with  or with  or  adjusted and confirmed with .





The adjustment is completed.

Please note!

The assigned preset memory locations appear in the display. The preset memory activated as next 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 over 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.





P Delete preset times

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

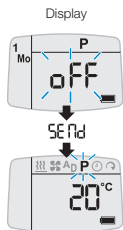
← or press → until **oFF** appears in the display.
Confirm with **OK**.

The preset time is deleted.

The following actions are possible:

- Switch over 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 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.

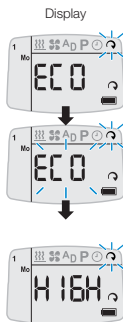
Activate mobile unit with  (see page 8).

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.






Operation and Adjustment

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.

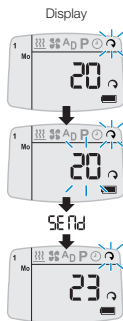
Activate mobile unit with  (see page 8).

Select symbol  with  or .

Confirm selection with .

Change the heating level with  or  and confirm with .

The new heating level is set.



Function pushbutton

The following activities can be executed with the button installed in the vehicle:

- Start heater mode, heating duration 30 minutes (LED on)
- Switch off all active units (LED off)



Maintenance

Charged status of the mobile unit's battery

(display in mobile unit)



Battery ok



Battery adequate



Battery weak
(replace soon)



Emergency mode,
change battery immediately

If the status display of the mobile unit indicates a weak battery, purchase a **CR 2430** type round cell battery made by Varta, Sony or Renata, as recommended by JE-Eberspächer.

Replace battery

- Use a 1 Euro coin to turn the bayonet fastening of the battery cover in the direction of the arrow.



- Remove the battery cover.
- Check the cover seal for damage.
- Remove dead battery.
- Insert new battery. The battery has been correctly inserted if the plus pole symbol and the type designation of the battery can be read.
- Put on the battery cover. The drip-shaped marking must point to the web between the recesses.
- Use a coin to turn the bayonet fastening of the battery cover in a clockwise direction until the slit reaches the vertical position.
- Activate mobile unit (see page 8).





What to do if ...?

Displays



Description

Poor communication between the mobile unit and stationary unit.
Data is received. However, it is faulty.

Possible causes

Distance between mobile unit and vehicle at the edge of the range .

Dense buildings between mobile unit and vehicle?

Several Easy Start radio remote controls are operated simultaneously.

Remedy

Change position relative to vehicle e. g. hold the mobile unit higher or move it to the side. Reduce distance from vehicle.

Reduce distance. If possible, reinstate visual contact with the vehicle.

Reactivate mobile unit after a pause .



Description

Communication between the mobile unit and stationary unit is not possible.

Possible causes

Distance between mobile unit and vehicle too large.

Several Easy Start radio remote controls are operated simultaneously.

Mobile unit has not been taught.

Remedy

Reduce distance.

Reactivate mobile unit after a pause .

Teach mobile unit as described in the installation instruction.

Please note!

If the messages **cobR** and **conP** are displayed, no control / operation possible.
A running heater can only be switched off using the button in the vehicle.

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	Remedy
Stationary unit is in learn mode.	Teach mobile unit as described in the installation instruction.



Description	Remedy
The mobile unit's battery is very weak. Data transmission is not possible.	Replace battery (see page 22).



Description	
The "Set timer" display appears after the mobile unit is activated.	
Possible cause	Remedy
Stationary part has been disconnected from the vehicle's battery. All programmed preset times have been deleted.	Set time (see page 9).



What to do if ...?

Displays

The mobile unit cannot be activated

Possible causes	Remedy
Battery dead.	Replace battery (see page 22).
No battery inserted.	Insert battery (see page 22).
Battery inserted wrong way around.	Insert battery correctly (see page 22).

LED display button flashing

Description	Remedy
Stationary unit is in learn mode.	The display switches itself off after 30 seconds or the teach the mobile unit as described in the installation instruction.

Please note!

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

Hotline

If you have any technical questions, a problem with your radio remote control or the heater, dial the following service phone number:

Telephone hotline
00 49 (0)800 / 12 34 300

Fax hotline
00 49 (0)1805 / 26 26 24

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

www.eberspaecher.com

J. Eberspächer
GmbH & Co. KG
Eberspächerstraße 24
D-73730 Esslingen
Telefon 0711 939-00
Telefax 0711 939-0643
info@eberspaecher.com



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