OPERATING INSTRUCTIONS
EASYSTART PRO OEM





Control unit for Eberspächer pre-heaters	**Order No.**
EasyStart Pro OEM	22.1000.35.4300

A WORLD OF COMFORT

Eberspächer

Chapter Chapter title Page

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1 Introduction

1.1 Please read first

Before you start with the setting and operation of EasyStart Pro, please read these operating instructions through carefully.

The operating instructions contain important information you require for the setting and operation of EasyStart Pro.

Please keep the operating instructions in a safe place for future reference.

1.2 Special text formats and presentations

Special text formats and picture symbols are used in these instructions to emphasise different situations and subjects. Refer to the following examples for their meanings and appropriate action.

1.2.1 Lists

- This dot (▪) indicates a list or action step, introduced by a heading.
  - If an indented dash (–) follows a “dot”, this list/action step is a sub-section/secondary step of the black dot.

1.2.2 Cross references

Underlined blue text denotes a cross-reference, which can be clicked in the PDF format. The part of the document named in the text is then displayed.

1.3 Explanation of the icons

Regulation!

This information indicates a statutory regulation. Any violation of these regulations results in expiry of the type-approval for the heater and exclusion of any guarantee and liability claims against Eberspächer Climate Control Systems International GmbH.

Danger!

“Danger” indicates a situation that can directly result in death or serious injuries if not avoided.

→ This arrow indicates the appropriate measures to avert the imminent danger.

Warning!

“Warning” indicates a situation that can potentially result in death or serious injuries if not avoided.

→ This arrow indicates the appropriate measures to avert the potential danger.

Caution!

“Caution” indicates a situation that can potentially result in minor or slight injuries or damage to the device.

→ This arrow indicates the appropriate measures to avert the potential danger.

Note

This note contains recommendations for use and useful tips for the operation, installation and repair of the product.

1.4 Repair

Repair of the EasyStart Pro control unit is not permitted. Failure to comply with this will void the warranty and this will lead to the exclusion of any warranty and liability on the part of Eberspächer Climate Control Systems International GmbH.

1.5 Disposal

Dispose of the product only according to the relevant legal regulations.

1.6 Safety instructions

Danger!

Always note and follow all information and notes, especially the safety instructions in this documentation and in the technical description of the heater.

- Risk of fire/deflagration due to ignition. Hazardous situations can occur if the heater is operated in the immediate vicinity of flammable gases, fumes, liquids or dust.

→ Do not use the EasyStart Pro control unit if the heater to be activated is in an environment in which flammable gases, fumes, liquids or dust are present or could be present.

- Risk of poisoning due to escaping exhaust gases. Hazardous situations can occur during operation of the heater in enclosed rooms.

→ Do not use the EasyStart Pro control unit if the activated heater is located in enclosed rooms, e.g. in a garage or a multi-storey car park.

- Risk of short-circuit due to penetrating liquid. Penetration of liquid into the receiver unit of the EasyStart Pro can result in dangerous situations.

→ To reduce the risk of an electrical short-circuit or damage, do not expose the receiver unit of the EasyStart Pro to moisture.

1.7 Intended use

The EasyStart Pro control unit serves for selecting the operation mode, for setting the operating time, for preselecting the starting time and for switching a heater and/or other option from Eberspächer Climate Control Systems International GmbH installed in the vehicle ON or OFF.

1.8 Non-intended use

- Use of the EasyStart Pro control unit for any purpose other than the intended use specified by the manufacturer is not permitted.

→ Use the EasyStart Pro control unit only for its intended purpose.

- Do not use the EasyStart Pro control unit if a malfunction could cause a hazard and / or damage to property.
- Do not use the EasyStart Pro control unit if there is reason to assume that safe operation of the activated heater is no longer assured.

→ Take all measures to prevent accidental restarting.

1.9 Disclaimer

The manufacturer is not liable for damage caused by improper use or incorrect operation. Failure to comply with the safety instructions makes the guarantee null and void and this leads to the exclusion of any liability of Eberspächer Climate Control Systems International GmbH.

1.10 Target groups for this document

This document is intended for the following target groups:

Specialist workshop
The “specialist workshop” target group includes all workshops trained by Eberspächer that purchase heaters or air conditioning systems and their control units, accessories and spare parts from Eberspächer or the trade and install, repair or service these on behalf of an end user.

Installation shop
The “installation shop” target group includes all companies trained by Eberspächer that purchase heaters or air conditioning systems and their control units, accessories and spare parts from Eberspächer and install, repair or service these on behalf of another company (normally the motor vehicle manufacturer / body builder).

End user
The “end user” target group includes all natural persons who operate a heater or air conditioning system using a control unit, irrespective of whether as a consumer or as part of their normal work.

1.11 Instruction obligation of the target groups

Each of the above-mentioned target groups must unconditionally observe its instruction obligation. The instruction obligation includes the passing on of technical documents.

Technical documents are all documents published for the installation, operation, maintenance or repair of heaters or air conditioning systems and their control units, accessories and spare parts from Eberspächer.

Note

- Unless otherwise expressly stipulated below, the technical documents may be passed on in printed form, on a data medium or by Internet download.
- The latest technical documents are available for download via the Eberspächer website.

Responsibility of the installation shop
The installation shop must pass on the following technical documents to the contracting company with the obligation to pass on these to the end user:

- Technical description
- Operating instructions

Responsibility of the specialist workshop

The specialist workshop must pass on the following technical documents to the end user, even if the order comes from a sub-contractor:

- Technical description
- Operating instructions

Note

The above-mentioned target groups must ensure that the end users are provided with the operating instructions on the product prepared by the manufacturer in printed form and in the end user's national language. If necessary, this can be an abridged form of the complete operating instructions that is additionally included with the product on a data medium or is available via Internet download.

1.12 EU Declaration of Conformity

We herewith declare that the control unit placed on the market by us conforms to the applicable provisions of the following EU Directive.

EU Directive 2014/30/EU

CE

The full Declaration of Conformity can be viewed and downloaded from the download centre at www.eberspaecher.com.

2 Getting to know EasyStart Pro

2.1 General information

EasyStart Pro has a simple operating structure. All settings, functions and parameters are controlled with a single operating button.

If the power supply in the vehicle is interrupted (e.g. the battery is disconnected), EasyStart Pro retains all the basic settings.

The use of EasyStart Pro is described in detail from page 9.

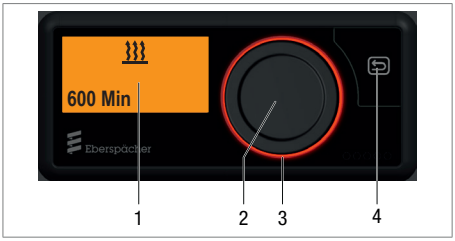
2.2 Product properties

EasyStart Pro is a permanently installed control unit for air and water heaters. It is based on the CAN bus communication and has been designed for the new Hydronic S3 Economy / Commercial and Airtronic S2/M2, Airtronic S3/M3/L3/XL3 heater generations.

EasyStart Pro is generally installed in the cockpit or dash panel of the vehicle.

EasyStart Pro allows you to make all the necessary settings for heater and ventilator of up to two heaters separately or of two identical heaters (Airtronic 2, Airtronic 3 or Hydronic S3) in a group.

2.3 Description of the operating components



1 Display

The display shows the following parameters:

- Current operating mode
- Operating mode
- Settings
- Error codes

2 Operating button

The operating button is used to operate, select and program all the functions and values in EasyStart Pro.

- **Turning** selects a value/function within a menu.
  - Turning to the right increases a value or selects the next menu item to the right.
  - Turning to the left decreases a value or selects the next menu item to the left.
- **Pressing** confirms the flashing menu item or value on the display.
- If EasyStart Pro is in sleep mode (display OFF), pressing or turning “wakes up” the active display mode.
  - If all heaters are switched off, the Start mask will be displayed.
  - When the heater is running, the currently remaining operating time of the heater is displayed.

Note

- A LONGPRESS (min. 2 sec.) immediately starts the connected heater. The standard operating time here is set at the factory to 600 minutes.
- During operation, a LONGPRESS (min. 2 sec.) immediately switches off all connected heaters.
- When the parking brake is engaged, the heater can be operated through EasyStart Pro.
- When the parking brake is disengaged, or the vehicle motor is running, EasyStart Pro switches off the heater and does not allow the heater to be started. (see page 10)

3 LED ring

The LED ring with its different colours serves to indicate the operating mode.

- Red ring: Heating mode
- Blue ring: Ventilation mode
- Orange ring: Residual heat mode
- White ring: System configuration
- Red flashing ring:
  - Fault in one of the connected heaters
  - Fault in EasyStart Pro
  - "Check Interlock" function

4 Button BACK

The BACK button causes a jump back to the menu or command at the next higher level. If EasyStart Pro is in sleep mode (display OFF), pressing “wakes up” the active display mode.

- If all heaters are switched off, the Start mask will be displayed.

- When the heater is running, the currently remaining operating time of the heater is displayed. If several heaters are running, the currently remaining operating times will be displayed alternately.

3 Notes on operation and setting

3.1 Activating EasyStart Pro

If the display is not lit, EasyStart Pro has to be activated. Pressing the operating button or BACK button displays the Start mask. You can then continue with operation or setting.

3.2 Display

The display is lit

- During operation of EasyStart Pro
- When "Check Interlock" has no voltage.
- When the heater is ON (the display goes out after approx. 30 seconds).

3.2.1 Display language

The display language is set by the workshop during installation. In the delivery condition of EasyStart Pro, English is available as display language.

A further 25 display languages are currently available. If necessary, agree on the display language to be set with your installation workshop. It will then undertake the necessary configuration.

3.2.2 Display goes out

The display goes out after approx. 30 seconds if

- No settings are made.
- No heater is switched on.

EasyStart Pro then goes to sleep mode. Before going to sleep mode, an overview mask is displayed. EasyStart Pro then has to be activated (see above) before a new input can be made.

3.3 Activating a function

The symbol of the function to be activated appears in the middle and flashing in the display.

Flashing function / flashing value

- Select the flashing function in the menu bar by pressing the operating button.
- Increase or decrease the flashing value by turning the operating button. Then confirm the selected value by pressing the operating button.

Cancel settings

Any settings being made can be cancelled with the BACK button.

Note

Settings and changes must always be confirmed by pressing the operating button, otherwise they will be lost.

3.4 Operating modes

3.4.1 Heating

- In this operating mode, a water heater heats the vehicle engine via the coolant circuit and the vehicle interior via the ventilation louvres, irrespective of the configuration.
- An air heater heats the vehicle interior with warm air that is distributed by a fan in the heater.

Note

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

3.5 Factory setting

Air heaters

- Operating time: 600 minutes
- Maximum operating time: infinite
- Target temperature: 22 °C

Water heaters

- Operating time: 600 minutes
- Maximum operating time: infinite

4 Operating and configuring EasyStart Pro

4.1 "Check Interlock" function

Note

- The heater can only be switched on, when the ,,control interlock" pin receives voltage.
- When the check interlock message is displayed (pin control interlock has no voltage),
  - the heater cannot be switched on.
  - a running heater will be deactivated. The deactivation of the combustion of fuel takes place immediately, but the heater will stay in afterrun mode for a certain time.
- When attempting to operate the heater under the above conditions, the LED ring starts to flash and this message appears in the display:



Possible functions during Check Interlock:

- Basic functions of the heater can be set via EasyStart Pro:
  - Setting the target temperature.
- EasyStart Pro keeps these settings in its memory.
- As soon as the ,,control interlock" pin has voltage again
  - the selected settings can be applied.
  - the heater can be put back into operation.

4.2 The menus and their functions



Menu bar

Status area

Menu bar

The following menus can be selected from the menu bar (turn the operating button to the right):

Symbol	Menu
	Heat
	Settings

Note

- The Ventilation function is only displayed if the heater supports this function. It can be activated via the workshop menu, please see chapt. 5 on page 12.

Status area

When the menu (heating or settings) is activated, various items of information are display in the status area. These are presented and described in the respective sections of these operating instructions.

Input area



Menu bar

Input area

Display:

e.g. Heating ON / Target Temperature 22 °C

In the menu bar, the symbol of the selected menu item appears in the middle of the display. The corresponding setting value flashes in the input area and can be altered by turning the operating button to the left or right and confirmed by pressing.

4.3 Heating



In the Start mask, a flashing heater symbol in the menu bar and the current temperature and status of the heater are displayed.

Possible actions are:

- HEATING IMMEDIATELY with LONGPRESS
- HEATING ON with settings

4.3.1 Heating immediately with LONGPRESS:

- Press operating button for longer than 2 seconds.

→ Heating mode starts immediately with the last operating time used. The LED ring lights up red.

4.3.2 Heating ON with settings:

- Press the operating button.
- With air heaters, select and confirm the target temperature.
- Heating mode ends at the end of the set operating time.

Note

If an air heater is operated with EasyStart Pro, the desired temperature can also be set in heating mode.

Airtonic 2: 8°C – 38°C in 1°C steps,
47°F – 100°F in 1°F steps.
Airtonic 3: 5°C – 38°C in 1°C steps,
41°F – 100°F in 1°F steps.

Heating OFF during heating mode

- Press the operating button.
- Select and confirm flashing menu .
- When OFF flashes on the display, press the operating button again.
- Heating mode is terminated.

Note

- LONGPRESS terminates heating mode immediately and all further connected heaters are also switched off.

4.4 Settings



In the Start mask, a flashing gear wheel in the menu bar is displayed.

Possible actions are:

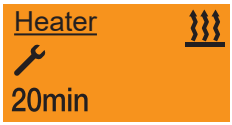
- Temperature setting °C / °F
- Fault diagnosis: Display of error messages
- Reset user settings

4.4.1 Fault diagnosis

– Select and confirm.
– Select and confirm the connected heater or control unit.
– The faults are displayed in the order of their occurrence.

Note

- If a fault occurs, the symbol appears on the display during operation:



- The LED ring flashes red as soon as a fault occurs. It stops flashing when the error message has been cancelled by pressing the operating button.

Note

Exception is the check interlock pop-up.

- Further information on fault diagnosis from page 16.

4.4.2 Resetting the user settings

– Select and confirm.
– YES resets the user settings in the EasyStart Pro settings.
– NO retains the existing user settings in the EasyStart Pro.

5 Workshop menu

5.1 Opening the workshop menu

- To open the workshop menu, select the Settings menu and then hold the BACK button pressed for longer than 2 seconds while the °C/°F symbol under the gear wheel is flashing.



- Here you may adjust parameters such as
  - Language
  - Ventilation
  - Heating
  - Undervoltage
  - ECO
  - Error memory
  - Hour counter
  - Maint. Interval
  - Control sensor
  - Indicator sensor
  - Version
  - Display
  - Factory reset

5.2 Adjusting the workshop entries

5.2.1 Language

In the delivery condition of EasyStart Pro, English as default and German are available as display languages. Via settings in EasyScan further 25 display languages are currently available.

5.2.2 Ventilation

In this operating mode, the water or air heater supplies the vehicle interior with fresh outdoor air via the ventilation louvres.

Note

This operating mode is only possible if the function is supported by the heater version (see also the Technical Description of the heater).

- Press the operating button to get into the ventilation menu.
- Select Group 1 by pressing the operating button.
- Chose an operating time between 60 and 120 minutes
- Confirm your selection by pressing the operating button.
- The ventilation mode is activated and you can return to the home screen by pressing the BACK button . After a short time, you can see the remaining runtime of the ventilation.
- The ventilation mode can be switched off by LONGPRESS of the operating button.

5.2.3 Heating

In the menu point heating you can adjust and set the operating time for heating (default 600 min.) The operating time can be set individually using the operating button.

- Turning right increases the operating time.
- Turning left decreases the operating time.
- Setting range for the operating time: min. 10 minutes to max. 120 minutes in one-minute steps. Above the 120th minute, the input is made in 60-minute steps.
- The operating time can be prolonged to infinite.
- Confirm the operating time by pressing the operating button.

→ Heating mode starts with the set operating time. The LED ring lights up red.

5.2.4 Undervoltage

Undervoltage shutdown conditions are reached when

- the voltage is below the undervoltage threshold, and
- the reaction time has expired.

- If the heater is on it will switch off, but the ventilation continues for a short time. The display shows the error message "Low voltage shutdown". This needs to be confirmed by pressing the operating button.



- If the heater is off the display shows the error message "Low voltage detected". When the Voltage has surpassed the set undervoltage threshold by 0.2 V the heater can be switched on.



Note

After a "Low voltage shutdown", the message "Low voltage detected" may still be displayed in certain cases, even if the undervoltage no longer exists. The message has to be confirmed by pressing the operating button.

Adjusting the thesholds

- Select the voltage system (12 V or 24 V).
- Adjust the undervoltage threshold.
  - For 12 V systems the threshold can be set between 10 V – 12 V in 0,1 V steps.
  - For 24 V systems the threshold can be set between 20 V – 24 V in 0,1 V steps.
- Adjust the reaction time.
  - For all systems the reaction time can be set between 1 sec. – 10 min. Within the reaction time a low voltage event will not switch off the heater.

Note

- The Factory default for 12 V systems is set to 11.4 V, for 24 V systems it is set to 21 V.
- The Factory default for the the reaction time is set to 6 min

5.2.5 ECO (Low temperature heating mode)

When selected, the low temperature heating mode reduces the outlet temperature at the air louvre by approx. 10 °C/18 °F (depending on the air routing). This mode is set if the air louvre is near the body or discharges onto temperature-sensitive components in the vehicle.

5.2.6 Error memory

- The error memory shows the occurred errors of the heater and of the control unit. They can be read out or deleted to unlock the heater again. Please see chapt. 6.2.1 on page 16.

5.2.7 Hour counter

The hour counter shows the operating hours of the heater.

5.2.8 Maintenance Interval

- If a maintenance interval for the connected heaters is set by the workshop during initial commissioning,
  - EasyStart Pro reminds the user to visit a specialist workshop to have the maintenance carried out by means of a notice on the display on expiry of the interval.



– EasyStart Pro prompts the user to switch on the “HEATING” function for 10 minutes even in the summer months after four months of non-operation by means of a notice on the display. Brief operation removes any residues and deposits in the combustion chamber and ensures proper operation during the heating period.



5.2.9 Control sensor

- EasyStart Pro OEM Truck has an integrated temperature sensor that can be used as control sensor. The heater regulates the heating output based on the measured value and the temperature setpoint.
- During installation, an additional external temperature sensor can be connected and integrated into the system. It may then be selected as the control sensor as well as the temperature sensor installed in the air heater.
- As default the control unit (EasyStart Pro OEM) is selected.

5.2.10 Indicator sensor

- EasyStart Pro OEM Truck has an integrated temperature sensor that measures and shows the interior temperature.
- During installation, an additional external temperature sensor can be connected and integrated into the system. It may then be selected to measure and show the interior temperature as well the temperature sensor installed in the air heater.
- As default the indicator sensor is not selected.

5.2.11 Version

This menu point reads out the currently installed software version.

5.2.12 Display

In this menu point the pixel display, its contrast and brightness can be adjusted.

5.2.13 Factory reset

Reset of the EasyStart Pro OEM Truck to the factory settings.

6 What to do if …?

6.1 Display fault / error

EasyStart Pro displays faults or errors in the heater or control unit by means of a red flashing LED ring on the operating button.

- An error message appears on the display. Pressing the operating button cancels the error message and the LED ring stops flashing.
- If there are several faults or errors, these will be displayed in turn by repeatedly pressing the operating button.
- If several heaters are connected, the error message will be preceded by either “H1” or “H2” to clearly localise the fault.

Note

Fault diagnosis can also be called up with the function in menu .

6.2 Fault diagnosis and remedy

6.2.1 Heater error messages

Display	Description	Remedy / Customer
	▪ There is a fault in the heater that can only be remedied by a specialist workshop.	▪ Visit an authorised Eberspächer workshop.
	▪ Undervoltage applied at the heater control box without interruption for at least 20 seconds.	▪ Check battery for a drop in voltage. ▪ Charge the battery, if necessary visit your vehicle workshop.
	▪ Overvoltage applied at the heater control box without interruption for at least 20 seconds.	▪ Check the battery, if necessary visit your vehicle workshop.
	▪ Fault in the fuel supply or fuel pump.	▪ Check the fuel line to the heater for free passage, short-circuit and damage. ▪ Pull the plug off the metering pump and inspect for damage. ▪ Check the fuel level in the fuel tank. ▪ Visit your vehicle workshop, if necessary.
	▪ With water heaters only: Water temperature in the heater too high.	▪ Check the water pump for proper function. ▪ Check the water circulation in the water circuit. ▪ Recommendation: Visit an authorised Eberspächer workshop to have the fault remedied.

Display	Description	Remedy / Customer
	▪ With air heaters only: Air temperature in the heater too high.	▪ Check the air lines. Are air lines clogged or kinked? Are all air louvres free and not blocked by objects? ▪ Recommendation: Visit an authorised Eberspächer workshop to have the fault remedied.
	▪ Overheating of the heater detected. The heater is interlocked for safety reasons.	▪ **Air heater:** The heater can be reset to the delivery condition by removing the heater fuse. ▪ Unlock the heater via deleting the error in the workshop menu. ▪ Recommendation: Visit an authorised Eberspächer workshop to have the fault remedied.
	▪ Emergency running of the heater.	▪ There is a fault in the heater. Restricted operation is still possible, however (with air heaters with target temperature 20 °C). ▪ Recommendation: Visit an authorised Eberspächer workshop to have the fault remedied.

6.2.2 Control unit error messages

Display	Description	Remedy / Customer
◄ 1 ► Ext. Temp. Sensor defective	▪ The external temperature sensor is defective.	▪ Check the wiring of the external temperature sensor for continuity, short-circuit or damage; replace the temperature sensor, if necessary. ▪ If the fault cannot be remedied, please visit your vehicle workshop.
◄ 2 ► Int. Temp. Sensor defective	▪ The internal temperature sensor is defective.	▪ There is no remedy for this fault. The control unit has to be replaced. Please visit your vehicle workshop for that.
◄ 3 ► Rotary Knob jammed	▪ The operating button is blocked.	▪ Can the operating button be freed again by hand? ▪ If the fault cannot be remedied, please visit your vehicle workshop.
◄ 4 ► Pushbutton jammed	▪ The button is blocked.	▪ Can the button be freed again by hand? ▪ If the fault cannot be remedied, please visit your vehicle workshop.
◄ 8 ► Operation not supported	▪ The heater is in auxiliary heating mode via Switching Plus and cannot be operated via EasyStart Pro during this time.	▪ Terminate auxiliary heating mode via Switching Plus. ▪ If the fault cannot be remedied, please visit your vehicle workshop.
◄ 9 ► CAN communi-cation error	▪ Communication error on the CAN bus link.	▪ Inspect the wiring for cable breakages/short-circuits. ▪ If the fault cannot be remedied, please visit your vehicle workshop.

Display	Description	Remedy / Customer
Mismatch	A change has been found in the system. For example ▪ if the heater was disconnected from the power supply (by power failure or change of supply battery). ▪ after changing the heater configuration by replacing the existing heater, addition of a second heater, etc.	→ A change has been found in the system. For example – if the heater was disconnected from the power supply (by power failure or change of supply battery). – after changing the heater configuration by replacing the existing heater, addition of a second heater, etc.
Low voltage shutdown	Low voltage shutdown	▪ Low voltage is detected while the heater is running. ▪ Check battery for a voltage drop. ▪ Charge the battery, if necessary visit your vehicle workshop.
Low voltage detected	Low voltage detected	▪ Low voltage is detected while the heater is off. ▪ Check battery for a voltage drop. ▪ Charge the battery, if necessary visit your vehicle workshop.
Check Interlock	"Check Interlock" function	▪ Check if ,,control interlock" pin receives voltage.

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