

EAS 3
app

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BRUNNER[®]
made in germany.

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1 PREPARATION

1.1 INSTALLATION APP

To be able to use the EAS 3 via app, the app must first be installed on a suitable end device (Android, iOS).

1.2 COMPATIBILITY AND KNOWN LIMITATIONS

1.2.1 HOME NETWORK COMPATIBILITY

1.2.1.1 ROUTER HOME NETWORK

Fritz!Box

Currently no restrictions known / reported (full compatibility even for models with Wifi Standard 6).

Telekom Speedport

Compatibility currently varies depending on the hardware/software variant.

A distinction is currently made between 3 variants:

1) Old device hardware (HW version Speedport Smart 3) / old device software (SW version 010137.5.0.001.2) → Compatible

2) Old device hardware / new device software Compatibility can be established under certain circumstances through separate settings on the router

**Solution:**

Please open the following ports for the Internet in the router for the “EAS3” device:

- 443 (https)
- 4500 (vpn)

3)New device hardware / New device software

a.Possibly not compatible Example (HW version Speedport smart 4) / Device software (SW version 010139.3.1.001.0)

**Solution:**

Please use another router

D-LINK / other routers

Currently no restrictions known / reported.

1.2.1.2 WLAN CONNECTION

Encryption of the WLAN connection (WPA)

The EAS3 WLAN chip does not support WPA3 encryption. The EAS3 can only be integrated into WLAN networks with WPA2 encryption.

**Solution:**

Please set the WLAN encryption type to WPA2 in the router of the home network in which the EAS3 is to be integrated.

Frequency band of the WLAN connection (2.4GHz vs. 5GHz)

The EAS3 WLAN chip does not support connection to WLAN networks in the 5GHz frequency band. Only WLAN networks with 2.4GHz are supported.

**Solution:**

Please activate the 2.4 GHz WLAN in the router of the home network and store the access data (SSID, password) of the 2.4 GHz WLAN in the EAS3.

Note: These may be different access data from the 5GHz WLAN! The access data always consists of the network name (SSID) and password (network key, password, ...). Minimum number of characters for SSID is 1, maximum number of characters for SSID is 64
Minimum number of characters for password is router-specific, maximum number of characters for password is 64

1.2.1.3 COMPATIBILITY OF END DEVICES (SMARTPHONE, ETC.)

**ATTENTION:**

When establishing a connection with a new end device (smartphone, tablet, etc.), make sure that the EAS3 app is completely closed on all other end devices. The app must also no longer be open in the background.

1.2.1.3.1 MANUFACTURER HUAWEI (“ANDROID” OPERATING SYSTEM)

Currently only limited compatibility or up to a certain software version (models with OS from P40 not / limited compatible).

1.2.1.3.2 MANUFACTURER XIAOMI (OPERATING SYSTEM “ANDROID”)

No compatibility.

1.2.1.3.3 MANUFACTURER GOOGLE (“ANDROID” OPERATING SYSTEM)

To connect the app on the end device (EAS3 app) with the EAS3, a WLAN is temporarily set up by the EAS3, in which the end device dials in. There is no connection to the Internet within this WLAN. The Google Pixel devices recognize this and ignore this connection by default in order to connect to the Internet via the parallel path of the SIM card. The use of the EAS3 hotspot (WLAN) must be confirmed separately.



Solution:

Please actively confirm the WLAN connection in the end device (Google Pixel, Samsung devices) (see explanation attached)

The Google Pixel devices have the “feature” that they do not “use” the WiFi connection if it is detected that this WiFi is not connected to the Internet.

In this case, the LTE connection will continue to be used. You have to explicitly set that you still want to have/use the WiFi connection.

This can also be recognized by the fact that no WiFi symbol is displayed in the status bar:

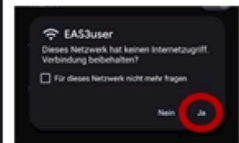
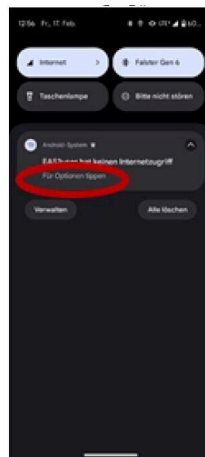


A “successful connection” with the EAS3user “without an Internet connection in the background” is indicated by a WiFi symbol with !



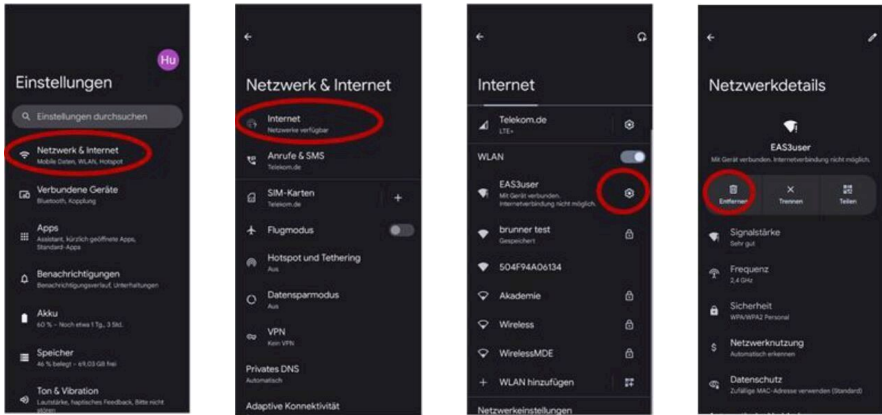
The following are the “instructions” for successful “pairing” with the WiFi:

- 1) Activate WiFi
- 2) Connect to WiFi “EAS3user”
- 3) A notification appears:
“Network has no internet access”



- 4) Confirm with Yes

5) If the query has already been confirmed with No, the EAS3user Wifi must first be deleted so that the notification appears again and can be selected



1.2.1.3.4 MANUFACTURER SAMSUNG (“ANDROID” OPERATING SYSTEM)

Some Samsung devices exhibit similar behavior to Google Pixel devices. To establish compatibility, follow the same steps as for establishing compatibility with Google Pixel devices (see: ["Manufacturer GOOGLE \(“Android” operating system\)”](#)) must be taken into account.

1.2.1.3.5 MANUFACTURER APPLE (“IOS” OPERATING SYSTEM)

Limited compatibility of Apple products known.

1. initial coupling

There are several options / methods for the initial pairing of the EAS3 app with the EAS3 control unit that can be effective:



Approach 1:

Start several pairing attempts. There are cases where the connection suddenly works after 5-100 attempts



Solution 2:

After pairing with the EAS3 app on an Android device, pairing with Apple devices often also works.

2nd update EAS3 control:

An update of the EAS3 control system initiated via the APPLE end device hangs at a defined time (% progress). Repeatedly starting the update process also leads to an identical result and identical progress display.

Solution:

It is necessary to reconnect the control unit with the app of the end device:

1. Disconnect the EAS3 control unit for at least 10 seconds (switch off power)

2a. Variant with display: Set WIFI switch to OFF and then back to ON

2b. Variant without display: Press and hold the button on the control unit for 2 seconds - a few seconds later the LED lights up blue

3. Start the pairing process via the EAS3 app on the end device (connect EAS3 WLAN to the control unit, start the app, etc.)



1.3 FIRST REGISTRATION

Establishing a connection via WiFi:

After installation, a point-to-point connection must be established between the end device and the EAS 3.

1.3.1 END CUSTOMER LOGIN

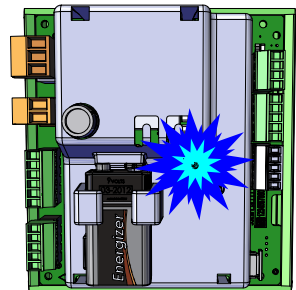


IMPORTANT

Login is possible **ONLY**, when the fireplace door is open!
→ Open the door while the fireplace is cold. Any combustion process must be finished and no hot embers may be present.

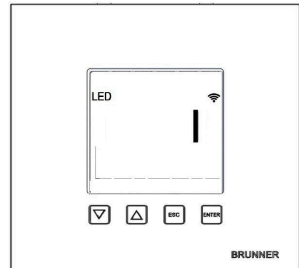
EAS 3 without display:

- The “blue” LED on device is lit:



EAS 3 with display:

- LED =1

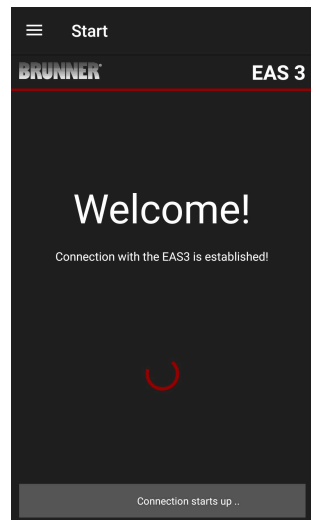


- Connect the end device with the User access point:

WLAN-Name: **EAS3user**

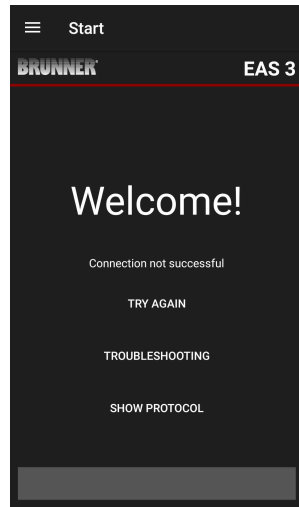
Password: **BR123456**

Open the application; Connection set-up:

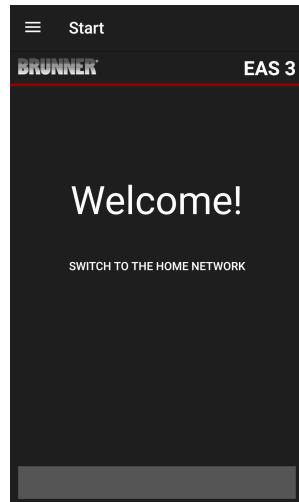


Keine erfolgreiche Verbindung

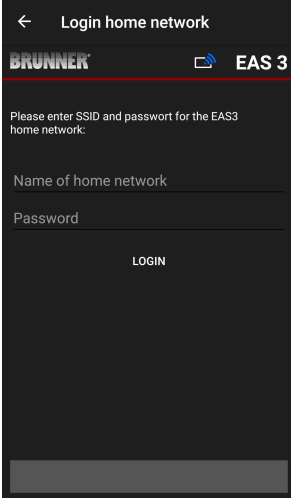
→ Click on
TRY AGAIN




After successful connection, the button
SWITCH TO HOME NETWORK will appear



Press the **SWITCH TO HOME NETWORK** button and enter your WLAN details.



← Login home network

BRUNNER  **EAS 3**

Please enter SSID and password for the EAS3 home network:

Name of home network

Password

LOGIN



Note

The EAS3 control can only be integrated into WLAN networks that support the 2.4GHz standard. If necessary, please activate the 2.4GHz WLAN in your router and use its login data (SSID, password [network key])

Examples: Router - WiFi data:

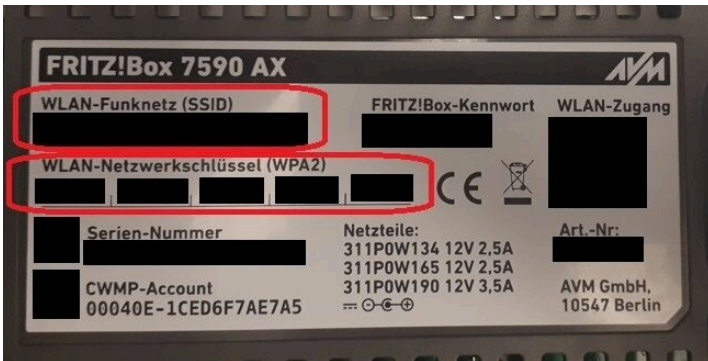


Illustration 1: ex. Fritz-Box

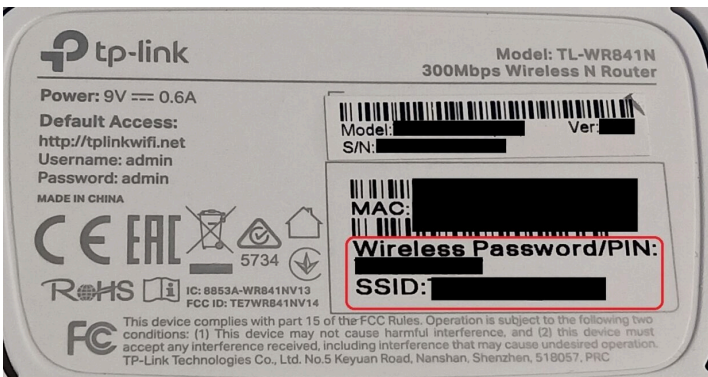


Illustration 2: ex. TP-Link-Box

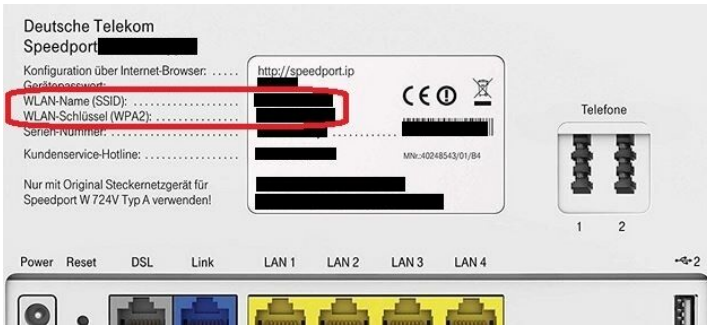
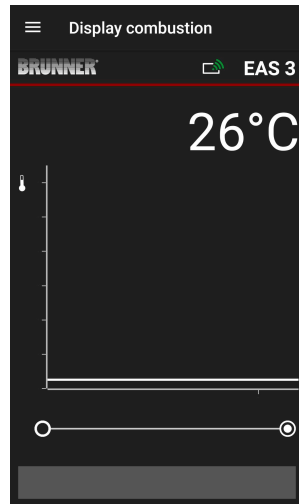


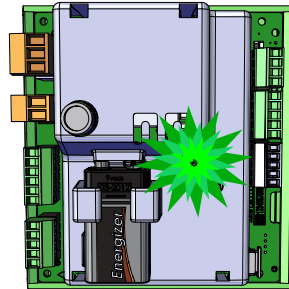
Illustration 3: ex. Speedport

After successful switching to your home network:

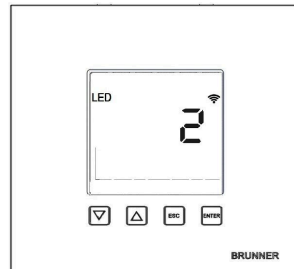
- the 'Combustion display' screen appears;
the green connection symbol is visible on
the WLAN icon and



the “green” LED on device is lit



- appears on the display: LED = 2



INFO

You are only logged out when you close the app in the background of your mobile phone. Important if the specialist is to log on to your EAS.

1.3.2 LOGIN FOR CRAFTSMAN



IMPORTANT

Login is possible **ONLY**, when the fireplace door is open!

→ Open the door while the fireplace is cold. No combustion process and no hot embers are allowed



INFO

For the login of the craftsman to the EAS app, the customer must terminate his access (***Customer log-out occurs automatically when the app is closed on the end device.***)

- • In case of variants without display, press the red button and hold for **five seconds**.

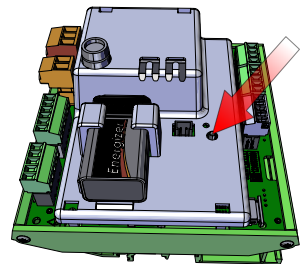


Illustration 4: EAS 3 ohne Display

- When a variant with display is used, hold the pressed “Enter” button on the screen for **five seconds**.

In the case of EAS 3 with display, the WiFi menu option must be activated!

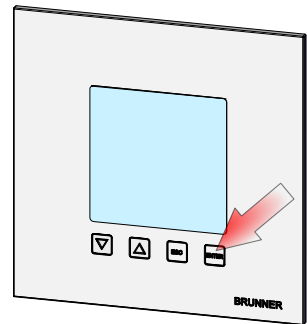
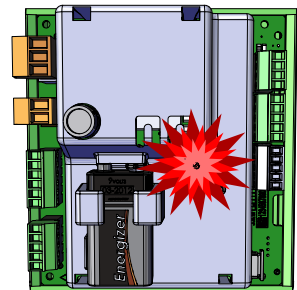
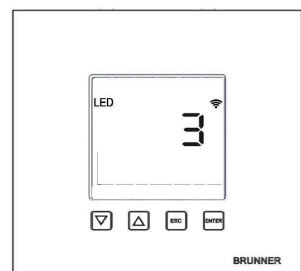


Illustration 5: EAS 3 mit Display

- The “red” LED on device is lit:



EAS 3 with display: LED = 3

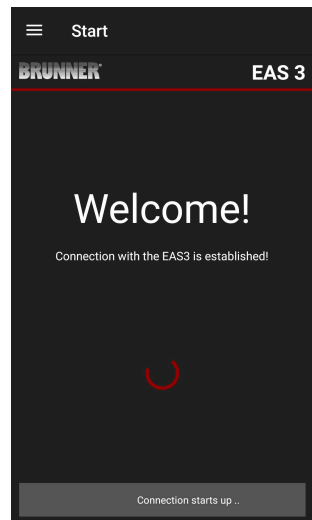


- Connect the end device with the Service access point:

WLAN-name: EAS3SERVICE

Passwort: BR987654321

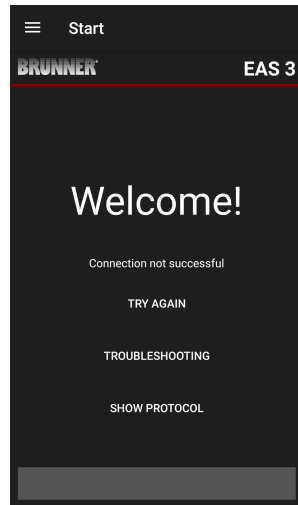
Open the application; Connection set-up:



No connection:

→ Click on

TRY AGAIN = ERNEUT VERSUCHEN

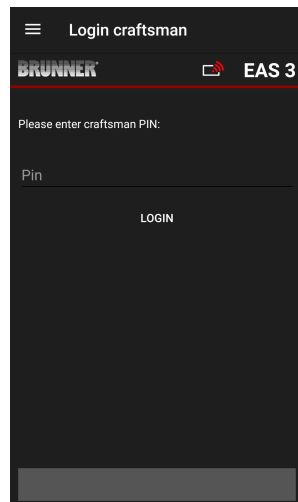


After successful connection, the page “Login craftsman”= „**Handwerker Anmelden**“ appears automatically.

Please enter your PIN and confirm with **LOGIN = ANMELDEN**, to activate the Service access:

Login=PIN 84307

- After successful login (authentication), the application will automatically switch to the craftsman menu; more details in section *Parameters menu for craftsmen*.



**PLEASE NOTE**

In the case of EAS 3 with display, the WiFi menu option must be activated!

1.3.3 RESET WIFI EAS 3

If an incorrect network name and/or password is entered when logging into the home network, the EAS 3 cannot connect to the home network. The WiFi symbol on the EAS 3 with display starts to flash and goes out completely after some time, the LED on the back goes out. The LED goes out on EAS 3 without display.

The same effect occurs if you want to operate an EAS 3 that is already integrated into a home network in another network.

This can only be remedied by resetting the WiFi function and logging into the desired home network again.

EAS 3 with display:

1 Briefly press the Enter button once and you are in the user menu, S+ appears.

Use the up arrow button to go to the WiFi menu item.

The display shows 1.

Press the Enter button once briefly and the 1 starts to flash.

Use the arrow down button to set 0, 0 flashes.

Press the Enter button once briefly to confirm, the 0 is displayed permanently.

Press the Enter button once briefly and the 0 starts flashing.

Use the arrow up button to set 1, 1 flashes.

Press the Enter button once to confirm, the 1 is displayed permanently.

Press the ESC button once briefly to exit the user menu.

The WiFi symbol should now be permanently displayed again and the LED should light up BLUE.

Continue as described in the instructions with direct connection EAS 3user.....

It may be necessary to repeat the process a second time.

EAS 3 without display

Press and hold the reset button on the control unit (red button) for 2 seconds.

The LED should now light up BLUE.

Continue as described in the instructions with direct connection EAS 3user.....

It may be necessary to carry out the procedure a second time.

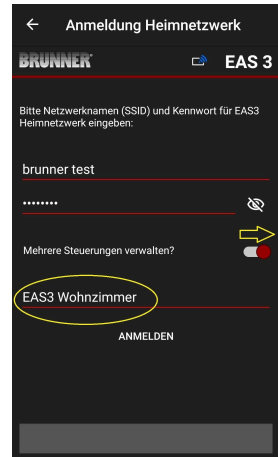
1.4 SEVERAL EAS 3 CONTROLLERS

Procedure:

1. Supply the first EAS3 controll with power
2. Establishing a connection via the "AccessPoint" „EAS3User“
3. Click for change to home network „Wechsel ins Heimnetzwerk“

4. The screen “Log on to home network”, „**Anmelden Heimnetzwerk**“ appears :

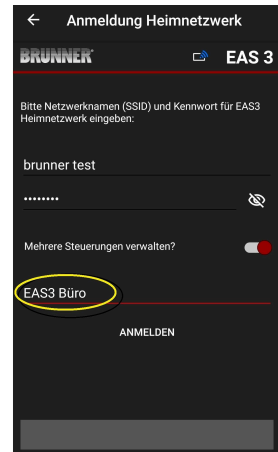
- a. Enter WLAN data
- b. Move the red slider to the right at the bottom
- c. Assign a name for the first EAS3 (e.g. EAS3 Living Room)



5. LED lights up green when logging into the home network is successful
6. Disconnect the first EAS3 from the power supply
7. Supply power to the second EAS3 control
8. Establish connection via the AccessPoint “EAS3User“
9. Click on “Change to home network”, „**Wechsel ins Heimnetzwerk**“

10. The screen “Log on to home network” appears „**Anmelden Heimnetzwerk**“

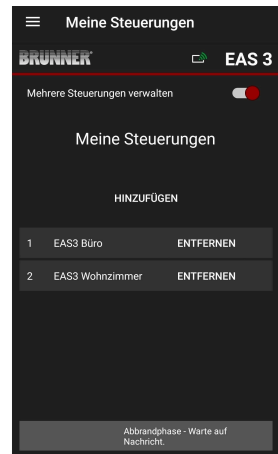
- a. Enter WLAN data
- b. Assign a name for the first EAS3 (e.g. EAS3 office).



11. The LED lights up green when logging into the home network is successful
12. Now also the first EAS3 can be again supplied with power

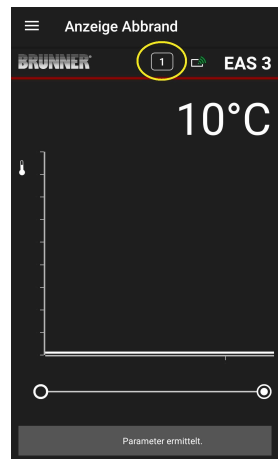
13. The two EAS3s can now be viewed under „**Meine Steuerungen**“, “ my controllers”

Info: The names of the EAS3s can possibly be changed here

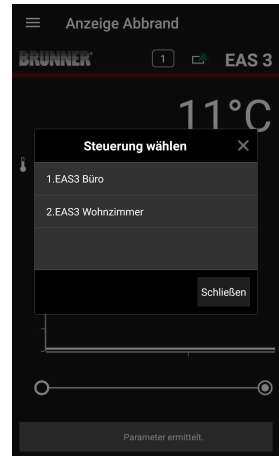


14. In the menu item “Burn-off”, „**Abbrand**“, the respective EAS3 can now be selected:

a. Display of the EAS3 office:



b. By clicking on the number of the EAS - yellow marking - one can switch between the two EAS3 controls:



2 CUSTOMER

2.1 CUSTOMER LOGIN



IMPORTANT

Login is possible **ONLY**, when the fireplace door is open!

→ Open the door while the fireplace is cold. Any combustion process must be finished and no hot embers may be present.

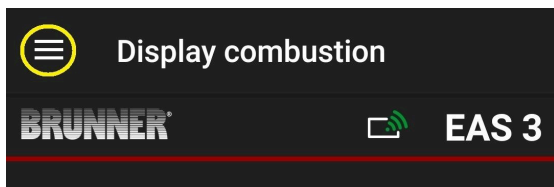
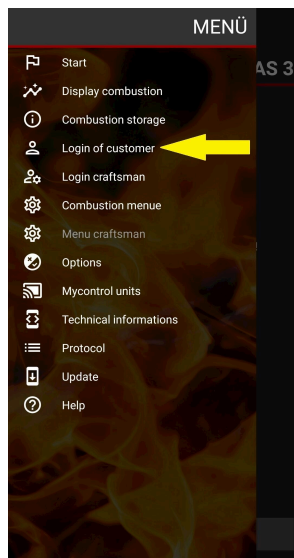


Illustration 6: Click on Menu

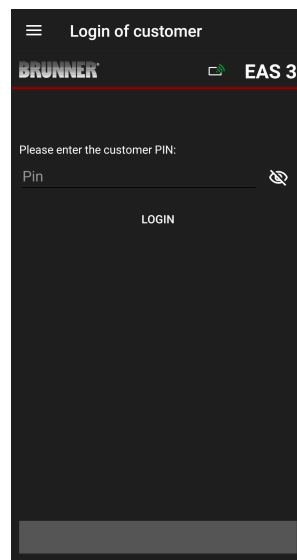
The customer sign-in option (Login of customer) is present on Menu selection screen, as long as the fireplace door is open.



Click **Login of customer** and enter the PIN code: 9999 .

→ You are now in the Owner mode.

After successful switching into Owner mode, you can perform various settings in the Combustion menu.



2.2 MENU FOR USERS (OWNER MENU)

Access only for viewing

Even without signing-in (user is not logged-in), you can check some parameters of your EAS 3. You need to be signed-in only to change the parameter settings.

System settings via EAS 3 application

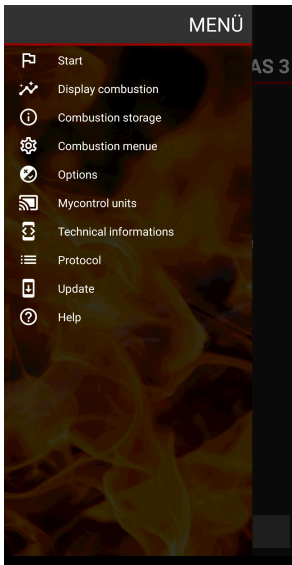
To adjust the settings of your system, you must switch into the Owner mode (User's mode). This requires successful connection with your home network.

Menu

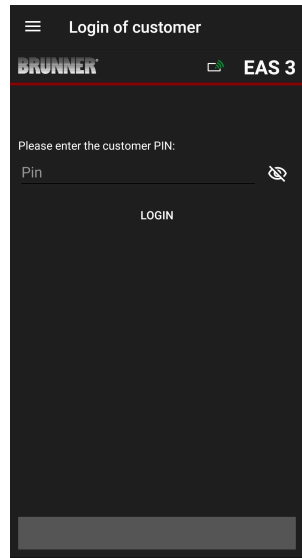
→

Login of customer

(= Customer login)

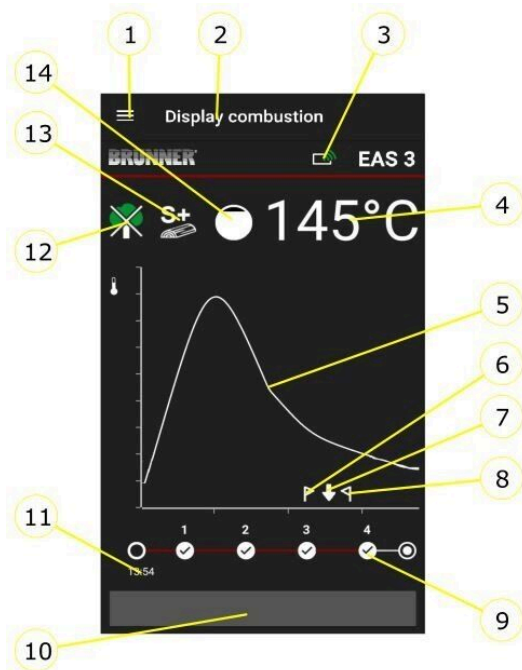


Login:
PIN = 9999
→
confirm by
clicking
LOGIN



2.2.1 COMBUSTION STATUS

Overview



1	Menu selection symbol
2	Anzeige der ausgewählten Ebene
3	WiFi network connection
4	Current combustion temperature
5	Combustion cycle graphic
6	Time for reloading starts
7	Recommended reloading time
8	Time for reloading ends
9	Stages of combustion (progress of combustion in time)
10	Display field for error messages
11	Time: Start of combustion
12	ECO mode is off
13	Prolonged combustion mode is active
14	Damper flap status

WiFi symbols (3)

Depending on the current WiFi mode of EAS3, a different colour is lit on the controller board. The colour is reflected 1:1 by the connection symbol on the application screen:



Blue EAS 3user, Initialer Modus



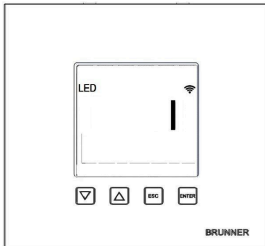
Green Home network, the EAS3 operates in its own WLAN



Red EAS 3Service - Service mode (Contractor mode) No connection



No connection Currently no connection can be established with the EAS3



On the EAS3 display LED is:

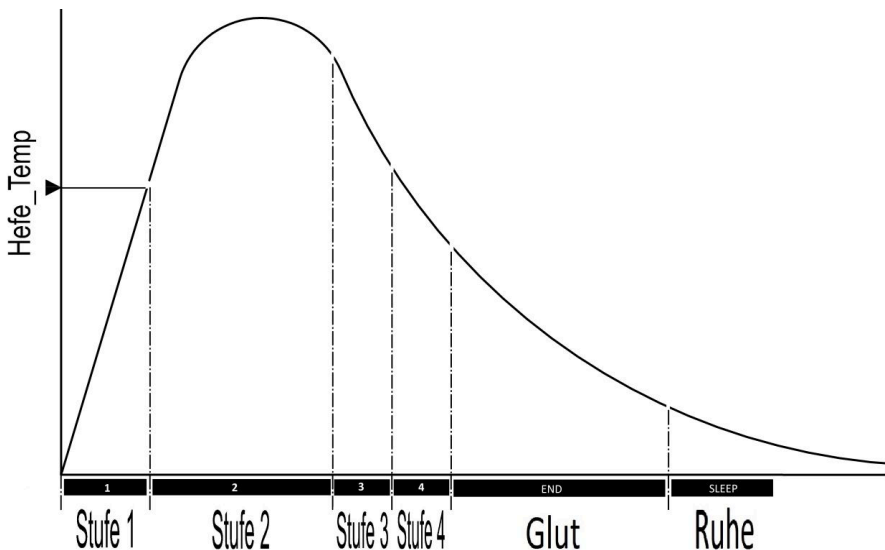
LED 0 = WIFI inactive

LED 1 = Blue

LED 2 = Green

LED 3 = Red

Combustion cycle graphic (5)



Mode of operation: Eco off (12)



Eco off

The hints for fire-starting and combustion errors are deactivated.

Prolonged combustion mode (13)



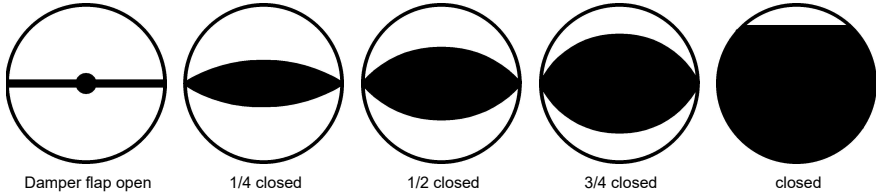
S+

The prolonged combustion mode is active.

This setting can be useful for avoiding/reducing the charcoal build-up during combustion.

Damper flap (14)

The position of a connected (optional) damper flap is shown in the display area of combustion cycle graphic.



2.2.2 STATUS OF COMBUSTION LOG

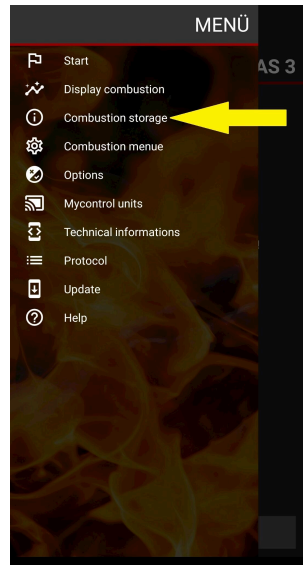
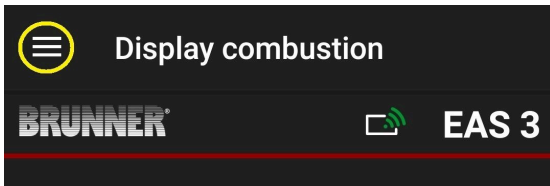


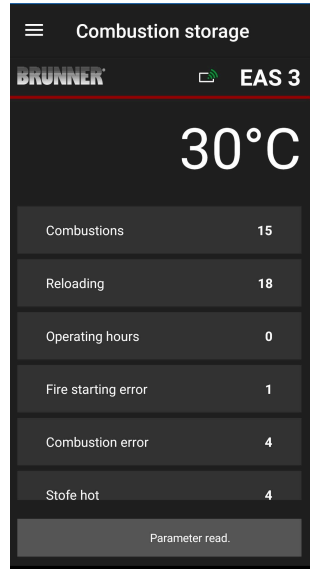
Illustration 7: Click on Menu

PLEASE NOTE:

This option can be selected **ONLY**, when the fireplace door is open.

By pressing the **Combustion log** button, you can open the combustion statistics.

The current statistics for individual completed combustion processes since commissioning of the EAS 3 are shown.



2.2.3 COMBUSTION MENU

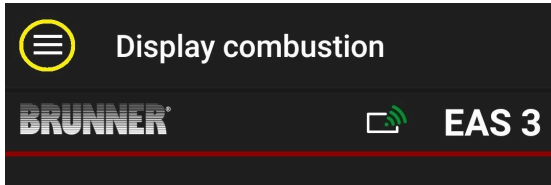
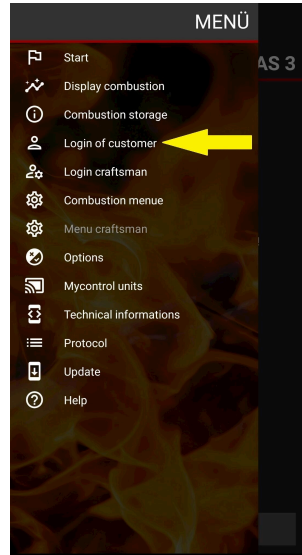
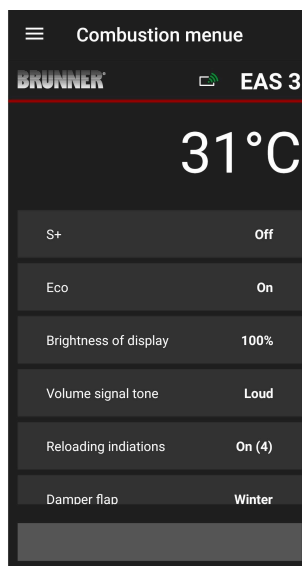


Illustration 8: Click on Menu



By pressing the **Combustion menu = Ab-brand-Menü** button, you can open a menu with parameters to be set:

The options of particular settings are described in the table below.



Button	Meaning	Possible options
S+	Prolonged combustion	Off or On
ECO	Eco mode	Off or On
Display brightness*	Brightness of display*	0 to 100 %
Sound volume	Buzzer (tone) intensity	2= Loud, 1=Medium, 0 = Quiet
Reloading hints	Reloading hints	Off = 0 (Default) On (1) =On, symbol + On (2) =On, symbol + five sounds + On (3) =On, symbol + blinking + On (4) =On, symbol + five sounds + blinking +
Damper flap	Damper flap operation	Winter or Summer

Button	Meaning	Possible options
*Refers to brightness of attached EAS3 display.		

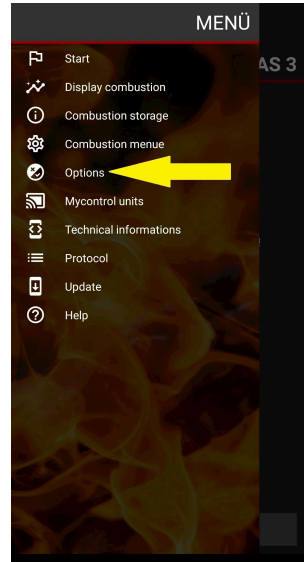
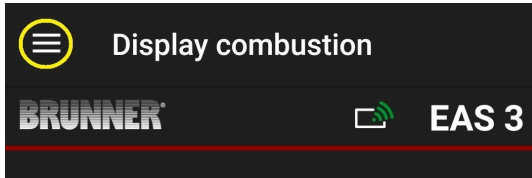
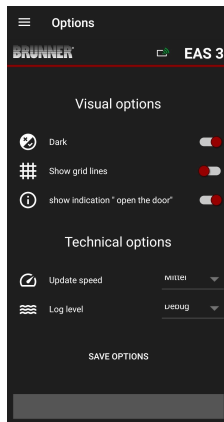


Illustration 9: Click on Menu

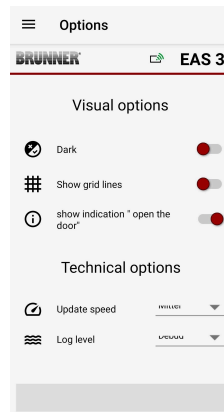
By clicking the Options button, you can open a page with visual settings::

- o **Dark theme=Dunkles Thema** = selection of application theme. Possible options are **White** or **Black** .
- o **Rasterlinie anzeigen = on / off**
- o **Refresh rate =Aktualisierungs-Geschwindigkeit** = Selection of display refresh rate. Possible options are: **Fast, Medium or Slow**.
- o **Nummer aktive EAS3 = Number of active EAS3** = if multiple EAS3 devices are connected, you can choose the corresponding EAS3 device.

The selected settings must be confirmed by clicking **SAVE OPTIONS**.



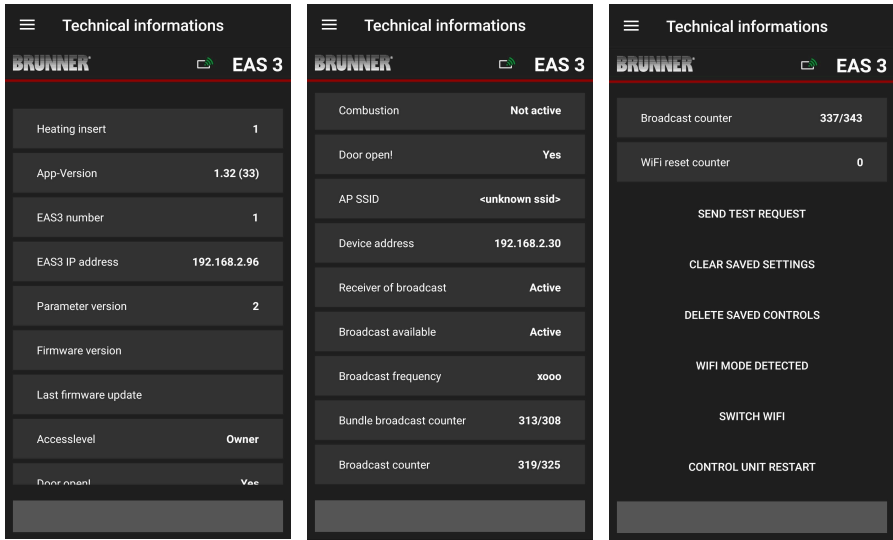
*Illustration 10:
Black*



*Illustration 11:
White*

2.2.4 TECHNICAL INFORMATION

Information about the control version/app can be obtained here.

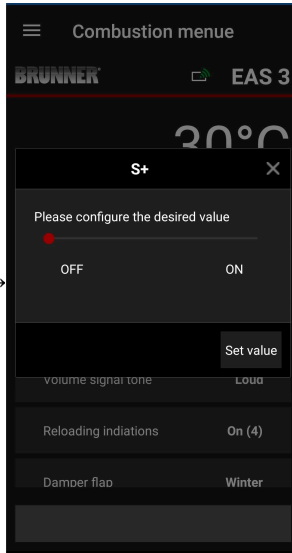
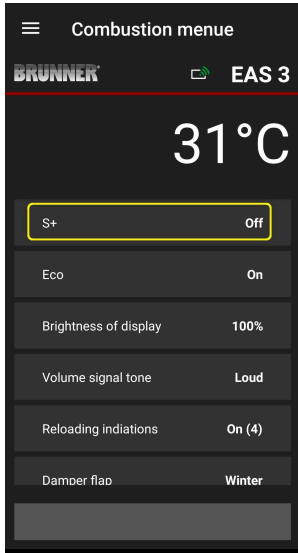


2.3 SETTINGS AVAILABLE FOR CUSTOMERS

The customer (owner) of EAS 3 can perform the following settings. Customer login is required to perform these settings (see chapter *End customer login*).

Then go to the Combustion menu – see chapter *Combustion menu*.

2.3.1 S+ (PROLONGED COMBUSTION MODE)



Move the red dot to the right or to the left.

Confirm the new setting with **Set value**.

Discard the new setting and close without saving by pressing **X**.

On = Function S+ is active (=1). The following hint symbol is displayed:



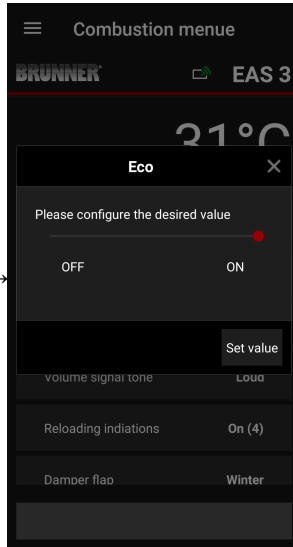
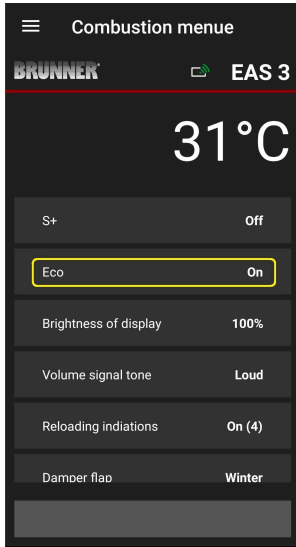
Off = Function S+ is not active (=0)

Default setting: S+ = 0



When charcoal build-up is too heavy (e.g. when hardwood is used), we recommend to set the function “**S+**” = “Prolonged combustion” to On (=1, active).

2.3.2 ECO MODE



Move the red dot to the right or to the left.

Confirm the new setting with **Set value**.

Discard the new setting and close without saving by pressing **X**.

Off (= ECO function is not active)(=0). The following hint symbol is displayed:



On (ECO function is active)(=1).

Default setting: Eco = 1

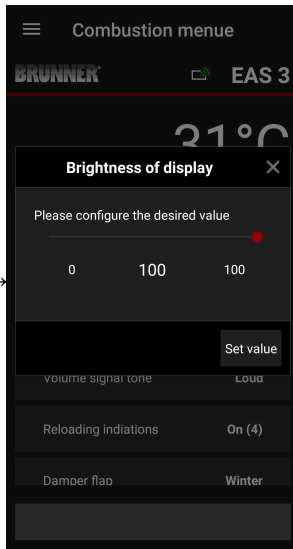
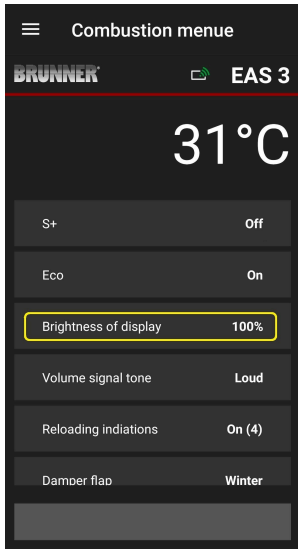


With activated ECO mode, **ECO = On**, **useful hints for environmentally friendly operation** are displayed.

When Eco mode = **Off** (function deactivated), these hints are not shown.

2.3.3 BRIGHTNESS OF BACKGROUND ILLUMINATION

The brightness of background illumination refers to the brightness of a connected EAS display only



Move the red dot to the right or to the left.

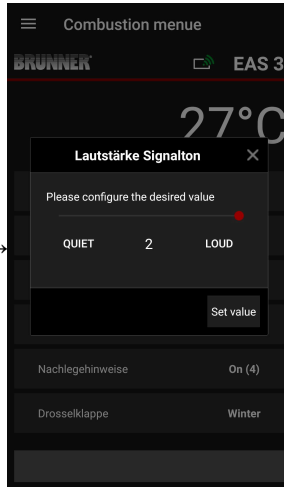
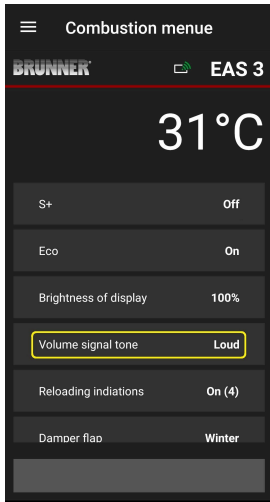
Confirm the new setting with **Set value**.

Discard the new setting and close without saving by pressing **X**.

Possible setting: **from 0 to 100 %** and **factory default: 80%**

2.3.4 SOUND SETTINGS

The volume setting refers to the sound of the EAS control unit.



Possible settings:
loud, medium, **quiet**.


Move the red dot to the right or to the left.

Confirm the new setting with **Set value**.


Discard the new setting and close without saving by pressing **X**.

Default setting: 2


2.3.5 SETTING THE REFILLING INSTRUCTIONS



The EAS 3 provides information in the form of symbols on the combustion curve and a warning tone to help you recognize the right time to add fuel. With the “1” setting for the refueling instructions, the starting point for refueling is indicated with the symbol  is displayed.

If the combustion chamber temperature continues to fall without topping

up, the symbol  symbol appears to indicate the end of the appropriate period for topping up.

Adding fuel after this time is usually no longer sufficient for a clean burn. (see the notes in the chapter “Refilling when the heater is warm”).

With configuration “2”, in addition to the symbol  symbol, five short warning tones are emitted at one-second intervals.

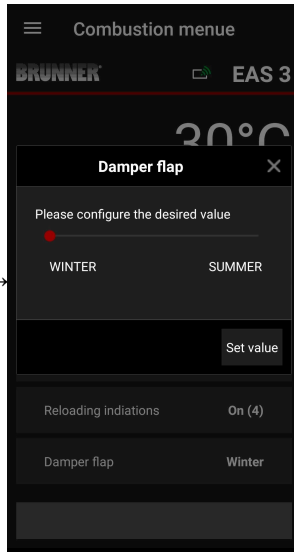
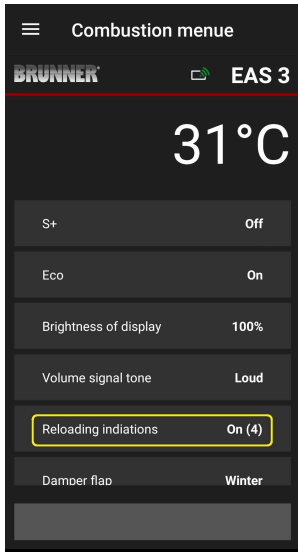
With configuration “3”, a flashing arrow appears every second for the duration of the reheating period.  in the middle between the two symbols 

and .

With configuration “4”, the same displays are shown as with configuration “3”, plus five short beeps at one-second intervals.

If the refill instructions are **not** required, a “0” is configured and no instructions for refilling appear.

In the event of errors of any kind, no refill instructions are issued.

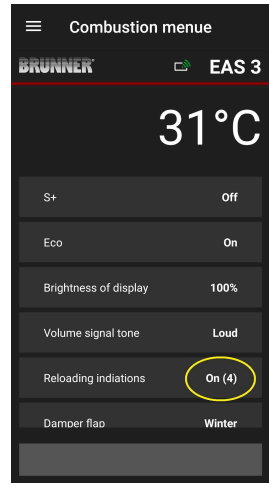


Move the red dot to the right or left.

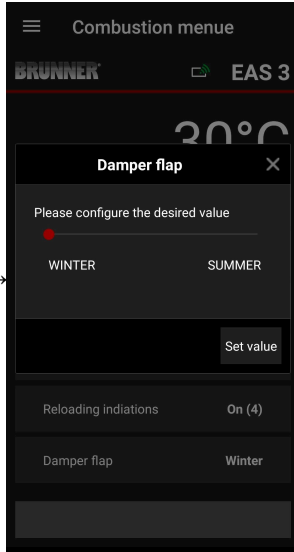
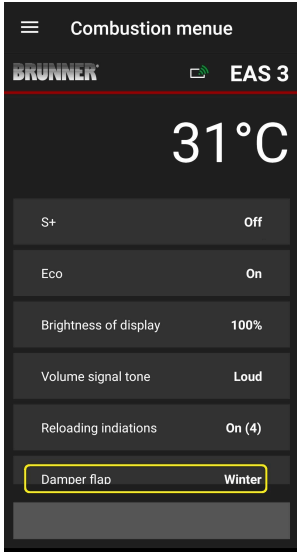
Confirm the new setting with **Set value**.

Close with **X** and do not save the new setting.

The selected configuration is displayed in brackets under Burning menu. (example here: configuration 3)



2.3.6 DAMPER FLAP



Move the red dot to the right or to the left.

Confirm the new setting with **Set value**.

Discard the new setting and close without saving by pressing **X**.

Summer (0) = off,
function deactivated

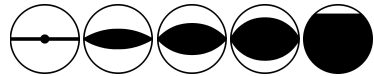
Winter (1) = on,
function activated

Default setting: = 1

Summer mode



Winter mode



Display status depends on the current status of damper flap

2.4 COMBUSTION LOG

The combustion log serves as an overview of combustion performance.

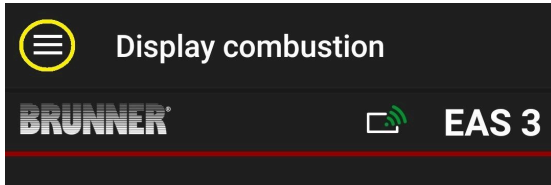
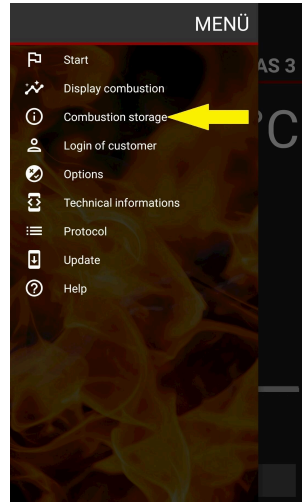


Illustration 12: Click on Menu

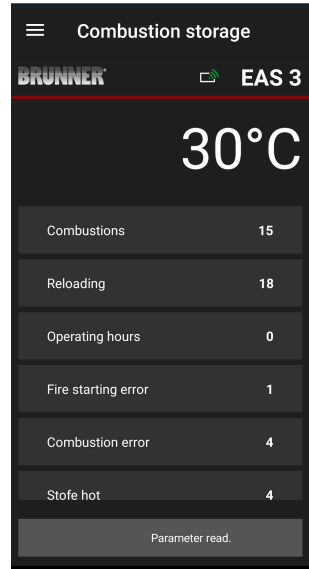
PLEASE NOTE:

This option can be selected **ONLY**, when the fireplace door is open.



By pressing the **Combustion log** button, you can open the combustion statistics.

The current statistics for individual completed combustion processes since commissioning of the EAS 3 are shown.



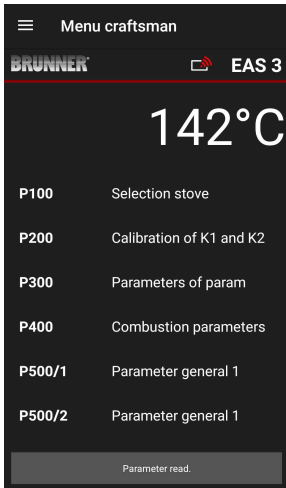
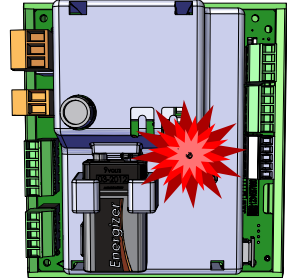
The combustion log is a generic term for the following:	Explanations
Combustions = combustion count	Combustion count: how often the combustion temperature allowed for proceeding to Stage 2.
Reloading = reloading count	Reloading count: how often wood was reloaded within combustion stages between 2 and 4.
Fire-starting error = fire-starting error count	Fire starting error count: how often a fire starting error was made.
Combustion error = combustion error count	Combustion error count: how often a combustion error happened.
Operating hours = operating hours count	Operating hours count: how long the combustion control was in stage between 2 and 4.
Stove hot = stove hot count	Stove hot count: how often the threshold value was exceeded.

3 CRAFTSMAN

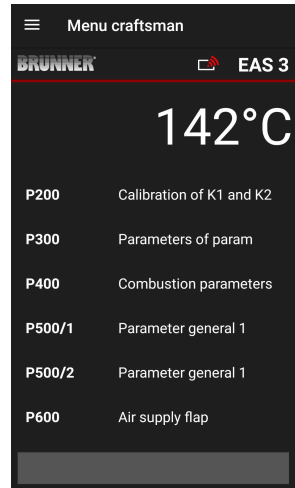
3.1 PARAMETERS MENU FOR CRAFTSMEN

Sign-in as contractor (Craftsman) (see chapter *Login for craftsman*).

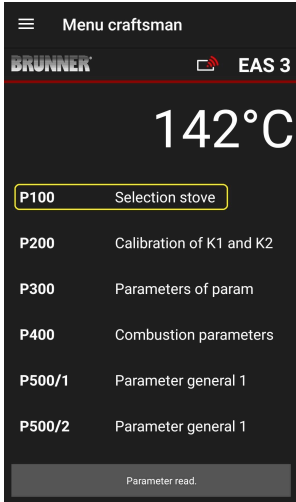
When you have successfully switched into Contractor Programming Mode (LED is red), and the EAS 3 application is open, the Craftsman menu will be opened automatically when the sign-in (authentication) process is completed.



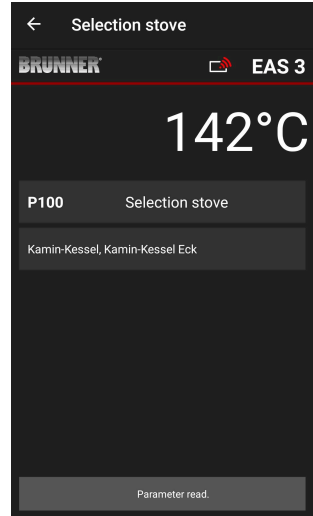
You can go to different menu levels by scrol



3.1.1 ADJUSTMENT OF THE EXISTING HEATING INSERT (P100)

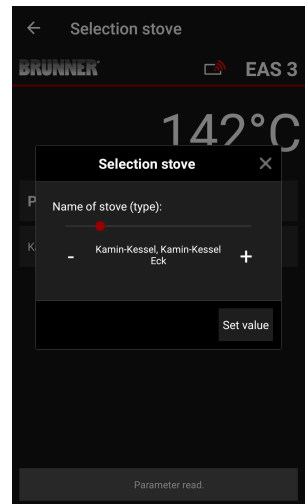


Press the **Select heater** button to open the P100 menu. Click on the row with the **heater type** indication (e.g. HKD 5, HKD 5.1) to open a pop-up menu.

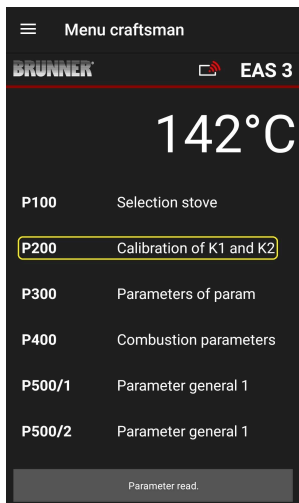


Now you can select a heater type number between 01 and 070. The number associated with the heater type can be found in the *programming instructions* or in the *installation instructions* (chapter *Commissioning of EAS 3*).

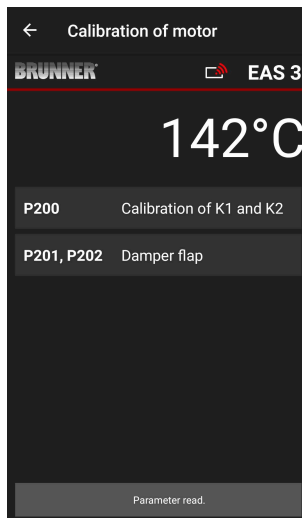
The value must be confirmed after selection by clicking the **Set value** button.



3.1.2 CALIBRATION OF MOTOR (P200)



Press the button **Calibration of K1 and K2** to open the **P200 Menu** allowing for the calibration of motors.



NOTE: P203, P204 Damper flap will be shown only, when damper flap is stalled.

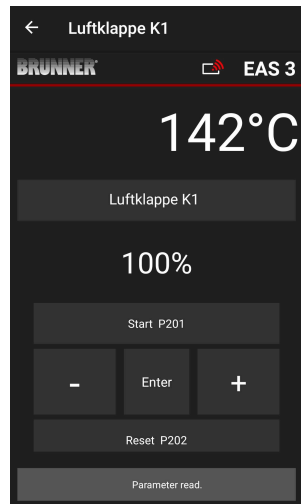


Click on **Start P201** → motor opens to 100%, if not open yet, then moves back to 0%. Now it is possible to start the manual calibration. Press **+** or **-**.

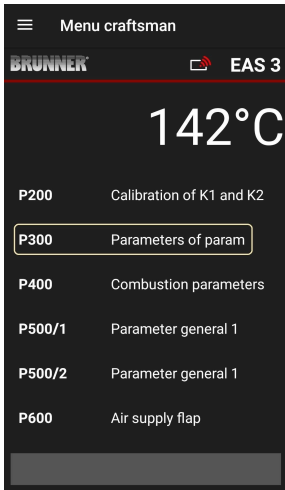
By pressing the **Reset P202** button, the motor will be set to 0 and the previous calibration will be deleted.

Click **Enter**, to save the new motor setting.

Note:
The motor calibration in case of damper flap is analogical to the air supply calibration

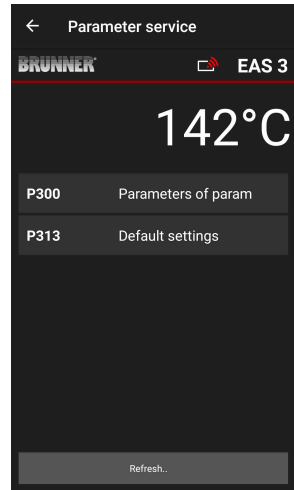


3.1.3 HEATER PARAMETERS (P300)



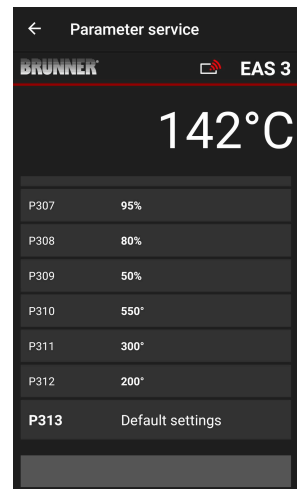
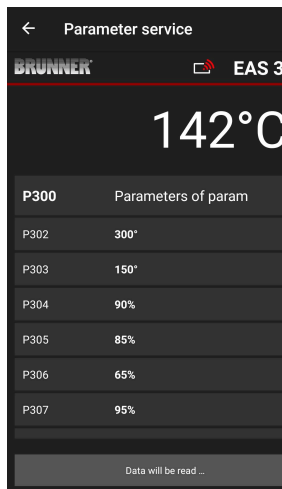
In this menu, you can set the parameters for the heating device.

The value ranges are shown in the *Programming Instruction* (chapter *Heater parameters*)

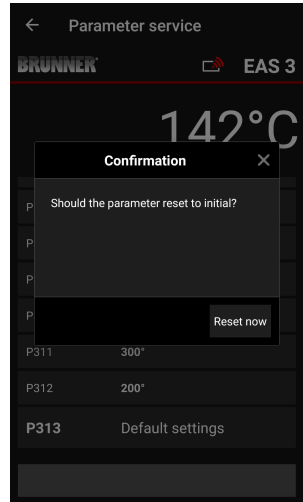


Under **P300 Heater parameters**, after automatic transmission of data, the current values for each parameter of the selected heater type are shown.

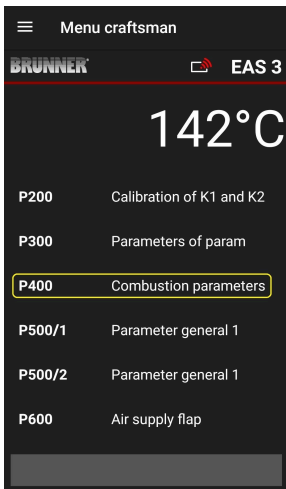
If the values cannot be shown on a single page, you can scroll down to see the remaining part.



The heater parameters can be reset to initial values by clicking **Factory defaults**. The pop-up menu must be confirmed by selecting **Reset now**.

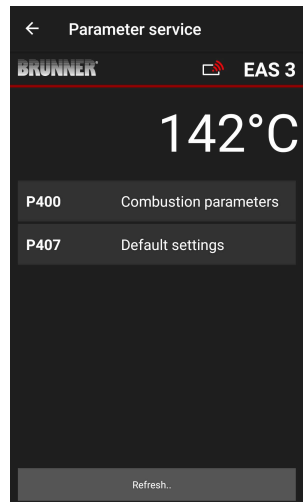


3.1.4 COMBUSTION PARAMETERS (P400)



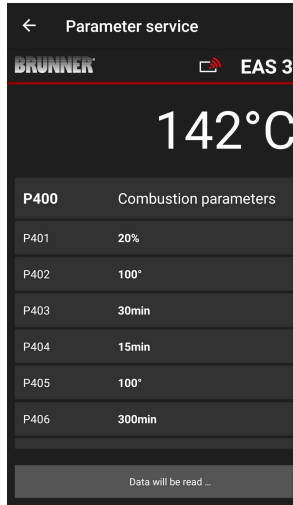
In this menu, you can set the parameters for the combustion process.

The value ranges are shown in the *programming instructions* (chapter *General parameters*).



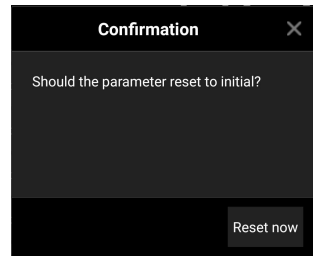
Under **P400 Combustion parameters**, after automatic transmission of data, the current values for each parameter of the selected heater type are shown.

If the values cannot be shown on a single page, you can scroll down to see the remaining part.

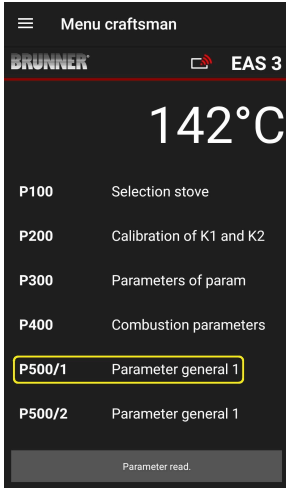


The parameters of combustion process can be reset to initial values by clicking **P407 Default settings**.

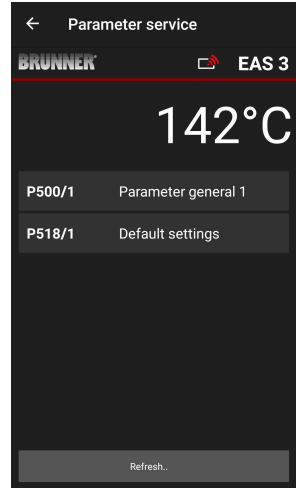
The pop-up menu must be confirmed by selecting **Reset now**.



3.1.5 GENERAL PARAMETERS I (P500/1)

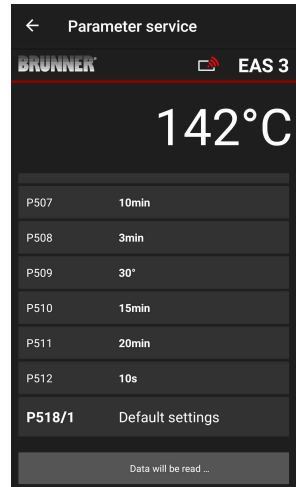


In this menu you can set the General parameters' part 1 (P501 – P512). The value ranges are shown in the *programming instructions* (chapter *General parameters*).

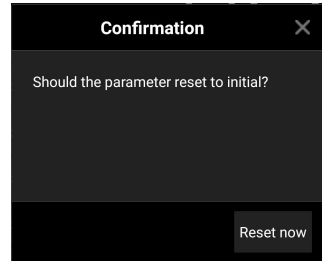


Under **P500/1 General parameters 1**, after automatic transmission of data, the current values for each parameter are shown.

If the values cannot be shown on a single page, you can scroll down to see the remaining part.



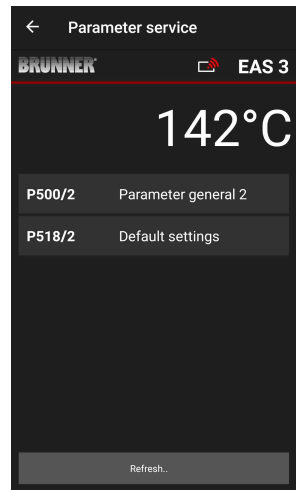
The parameters of combustion process can be reset to initial values by clicking **Default settings**. The pop-up menu must be confirmed by selecting **Reset now**.



3.1.6 GENERAL PARAMETERS 2 (P500/2)



In this menu you can set the General parameters' part 2 (P513 – P517). The value ranges are shown in the *programming instructions* (chapter *General parameters*).



Under **P500/2 General parameters 2**, after automatic transmission of data, the current values for each parameter are shown.

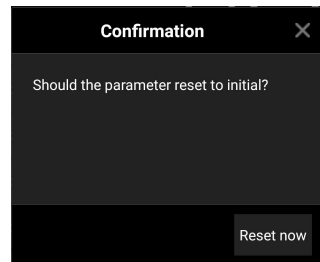
The parameters P516* and P517* are only shown and cannot be set; they are not changed by reverting to default settings.

*This information may change as the parameters are expanded.

If the values cannot be shown on a single page, you can scroll down to see the remaining part.

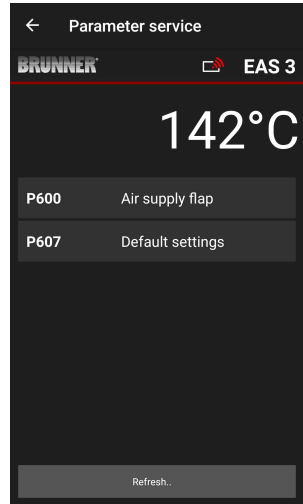


The parameters of combustion process can be reset to initial values by clicking **Default settings**. The pop-up menu must be confirmed by selecting **Reset now**.

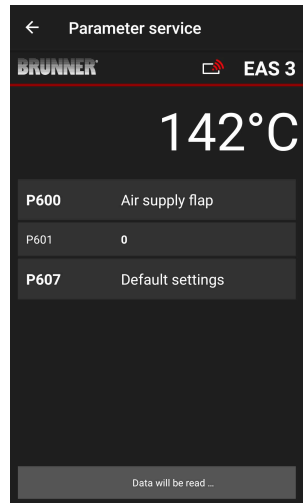


3.1.7 DAMPER FLAP PARAMETERS (P600)

The damper flap function can be configured in the P600 menu.

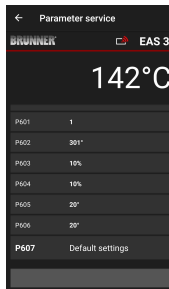


Under **P600 Damper flap K2**, after automatic transmission of data, the current values for each parameter are shown:

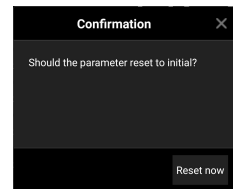


P602 to P606 are shown, when P601 is set to „1”, i.e. the damper flap is present:

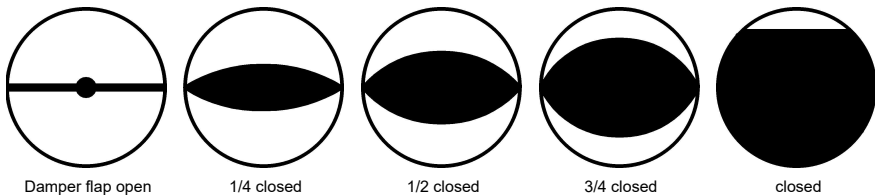
If the values cannot be shown on a single page, you can scroll down to see the remaining part.



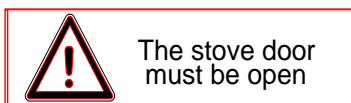
The parameters of combustion process can be reset to initial values by clicking **P607 Default settings**. The pop-up menu must be confirmed by selecting **Reset now**



When P601 is set to „1”, the damper flap is present and the damper flap symbol is visible too. This symbol changes during heater operation, depending on its current status:



3.1.8 CALIBRATION OF FLAPS IN THE EAS APPLICATION



For both flaps, the following rule is valid:
calibration can be done with open stove door only

For stove type no. 30 (KSO) a calibration of air supply flap is not possible!



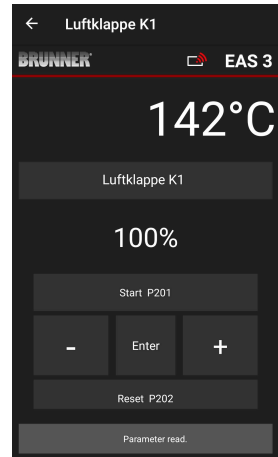
Calibration **is not necessary** with the **current** BRUNNER delivery program..

Calibration **is only necessary when converting old devices!**

- Disconnect the flap or valve mechanically from the gears and set to OPEN by hand.
- Switch the EAS power supply ON.
- Go to Parameters menu **P201, P202** (chapter Calibration of motor P200) and set **100%**.

Alternatively, the gear mechanism will turn to 100% from another position; in this case: please wait until 100% is reached. Reconnect the gears and flap or valve mechanically.

- Press the ENTER button once shortly. The gear mechanism will turn to 0% **CLOSED** (0% will blink), do not press any EAS buttons in this time. If necessary, you can set the flap or valve to desired **CLOSED** position by pressing the UP/DOWN arrow buttons.
- Press the ENTER button once shortly to store the new **CLOSED** position. The value **0%** will appear for a short time on display, then the gear mechanism will automatically turn back to **100% OPEN** position.



-> Exit the Parameters menu, the EAS is ready for operation.

Note: **P202** value will set the calibration to factory default, see *Programming Instructions*.

K2, damper flap:

- Disconnect the flap from the gears mechanically and set to **OPEN** by hand.
- Switch the EAS power supply ON.

The parameter **P201** is set to **100%**. Go to parameter **P203** and set it to **100%**. Alternatively, the gear mechanism will turn to 100% from another position; in this case, please wait until **100%** is reached. Reconnect the gears and flap mechanically, eventually turn the gearing fixture, until the gearing adapter and the flexible shaft driver will match to each other.

- Press the ENTER button once shortly (under Calibration of motor / P203 in the EAS application). The gear mechanism will turn to **0% CLOSED** (0% will blink), do not press any EAS buttons in this time. If necessary, you can set the flap to desired **CLOSED** position by pressing the UP/DOWN arrow buttons.
- Press the ENTER button once shortly to store the new **CLOSED** position. The value **0%** will appear for a short time on display, then the gear mechanism will automatically turn back to **100% OPEN** position.

Exit the Parameters menu (with ←) -> the EAS is ready for operation.

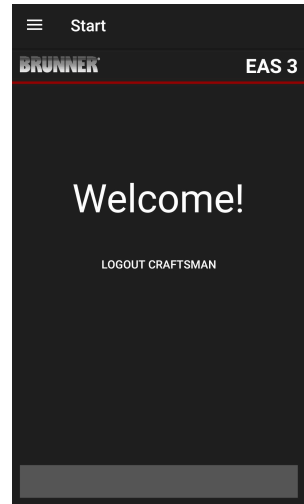
3.2 CRAFTSMAN LOGOUT

When all parameter settings in Craftsman menu are completed, you **must** exit the Craftsman Programming Mode.

Menu → Start →
LOGOUT CRAFTSMAN

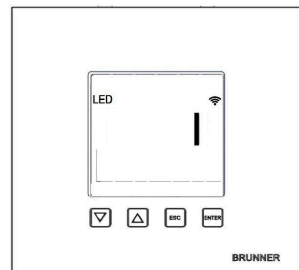


INFO: If the Craftsman logout is not carried out, the EAS 3 automatically logs out of the Craftsman menu after 7 minutes.



→ The LED on device must have the same colour as before (blue or green).

For the EAS 3 with display: LED = 1 or 2



4 INFORMATION AND ERROR MESSAGES

4.1 HINWEISE

The following symbols make it visible at first glance, if there are any problems in operation:

Fire starting error



The fire starting temperature was not reached in a given time.

- Start the fire again
- Use appropriate fire starting aids (Fidibus sticks, for example); do not use fire starting aids in form of fluids!
- Use small pieces of wood for starting fire.



Combustion error

The threshold temperature was not reached in a given time.

- > Use only dry firewood in a prescribed amount. Improper fuels or waste must not be burned in a fireplace.



Door open

The stove door is open for too long.

- > Close the stove door



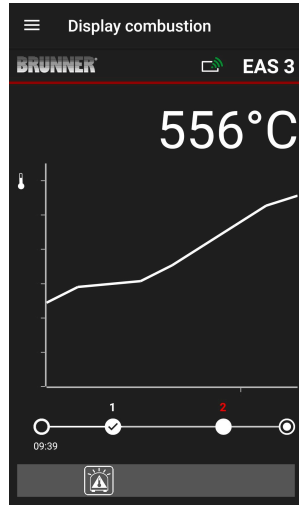
Stove hot

The combustion chamber temperature is above the allowed maximum for the stove or fireplace type.

- Never use more wood, than the prescribed maximum.
- Allow for a 'heating break' between wood reloading intervals. The heating device works in unfavourable working conditions.

In the case of error messages, they are displayed as pop-ups:

The error is also displayed in the text line below:



In the case of fire starting error, it will be displayed in the Timeline as the following (red):



In the case of combustion error, it will be displayed in the Timeline as the following:



In the case of subsequent errors (F11, 12, 13 etc.) there will be just one notification in the Info row in the bottom left corner of the screen.

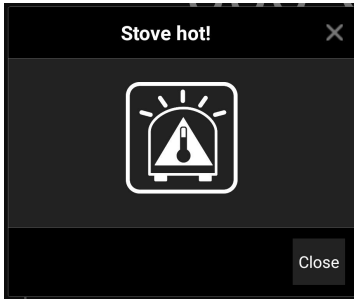
4.2 ERROR MESSAGES

Display	Error messages and possible causes
F01	Sensor damage The thermocouple in combustion chamber is damaged, has a broken wire or connector damage.

Display	Error messages and possible causes
F02	Thermocouple polarity The thermocouple in combustion chamber has a faulty connection or damage.
F11	The combustion air supply actuator has no reference position.
F12	The combustion air supply actuator cannot be properly positioned.
F13	The combustion air supply actuator cannot reach its reference position.
F14	The combustion air supply actuator does not respond.
F21	The damper flap actuator has no reference position.
F22	The damper flap actuator cannot be properly positioned.
F23	The damper flap actuator cannot reach its reference position.
F24	The damper flap actuator does not respond.
F51	Door switch The door switch reports an undefined position. Possible causes: door switch damaged, faulty wire connection, wire broken or connector pulled off.
FBAT	No battery. Install battery!
LBAT	Battery weak. Change battery!
FDEV	Internal error.

4.3 ERROR RESET FUNCTION

Resetting of pop-up errors

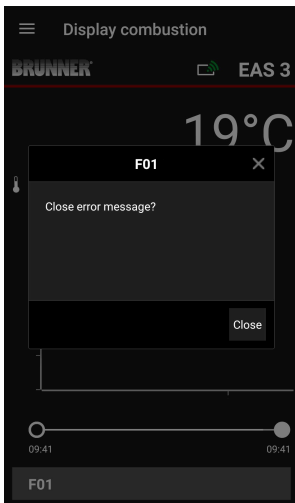


o By clicking on **Close**, the error will be reset

If the error still exists, it will be shown again

o By clicking on **X**, the error displayed in the Info row will remain at the bottom of the screen

Resetting of stored 'F' errors



o By clicking on the **Error** displayed in the Info row, a pop-up will appear

o By clicking on **Close**, the error will be reset

If the error still exists, it will be shown again.

o By clicking on **X**, the error displayed in the Info row will remain at the bottom of the screen

5 UPDATE DER EAS3



WICHTIG: Während dem Update, **BEACHTEN** Sie:

1. Ofentür muss offen sein
2. Entfernung zwischen dem Endgerät und der EAS 3 : **max. 3m**
3. die Ladung des Endgerätes mindestens 30%



INFO !!! **NEU** :

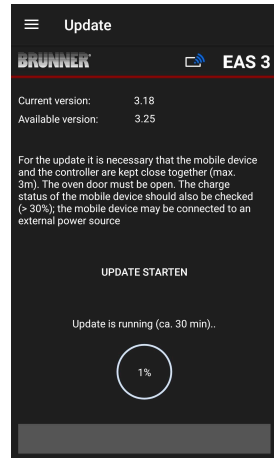
Die Steuerungssoftware der EAS3 ist in die App integriert und wird direkt über die App aktualisiert.

Die EAS 3 App auf Ihrem mobilen Endgerät herunterladen und damit das Update der EAS 3-Steuerung durchführen.

Die Steuerungssoftware der EAS3 ist in die App integriert und wird direkt über die App aktualisiert.

Beim Starten der App wird kontrolliert, ob die aktuelle Softwareversion auf der EAS3 Steuerung ist (siehe Versionsnummer in der Anzeige).

Es muss ein Update erfolgen, damit die App zusammen mit der EAS3 Steuerung ohne Probleme funktioniert →
Bitte auf **UPDATE STARTEN** klicken.

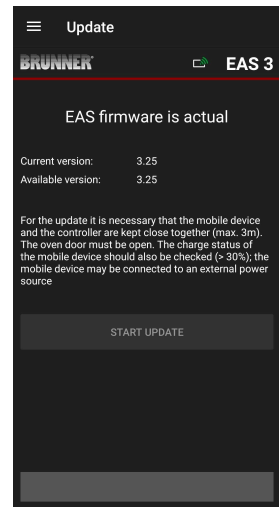
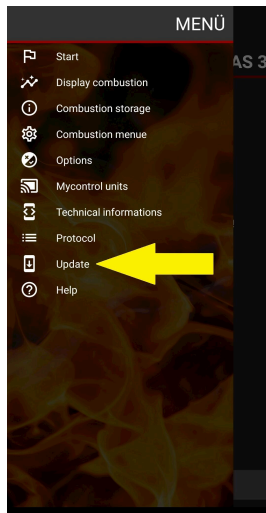


Nach kurzer Zeit wird die Prozentzahl nach oben gezählt, dadurch ist ersichtlich, dass das Update gestartet ist.

Klickt man auf das Menü, **ohne** das Update zu starten, **kann nicht mehr gewährleistet werden, dass die App funktioniert.**

Ist das Update erfolgreich abgeschlossen (= 100%), kann die App vollumfänglich genutzt werden.

Informationen über die aktuelle Version und Aktualisierung auf die neueste Version können unter **Menü / Update** eingesehen werden:



Gender note: For better readability, the generic masculine is used in this documentation. Unless otherwise indicated, the personal designations used in this documentation refer to all genders.

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