



Installation and User Manual Control panel & PCB

Quinta Ace

135 160 HMI T-control SCB-01



Dear Customer,

Thank you very much for buying this appliance.

Please read through the manual carefully before using the product, and keep it in a safe place for later reference. In order to ensure continued safe and efficient operation we recommend that the product is serviced regularly. Our service and customer service organisation can assist with this.

We hope you enjoy years of problem-free operation with the product.

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1 Safety

1.1.1 Manufacturer's liability

Our products are manufactured in compliance with the requirements of the various Directives applicable. They are therefore delivered with the $\zeta \in$ marking and any documents necessary. In the interests of the quality of our products, we strive constantly to improve them. We therefore reserve the right to modify the specifications given in this document.

Our liability as manufacturer may not be invoked in the following cases:

- Failure to abide by the instructions on installing and maintaining the appliance.
- Failure to abide by the instructions on using the appliance.
- Faulty or insufficient maintenance of the appliance.

1.1.2 Installer's liability

The installer is responsible for the installation and initial commissioning of the appliance. The installer must observe the following instructions:

- Read and follow the instructions given in the manuals provided with the appliance.
- Install the appliance in compliance with prevailing legislation and standards.
- · Carry out initial commissioning and any checks necessary.
- Explain the installation to the user.
- If maintenance is necessary, warn the user of the obligation to check the appliance and keep it in good working order.
- Give all the instruction manuals to the user.

1.1.3 User's liability

To guarantee optimum operation of the system, you must abide by the following instructions:

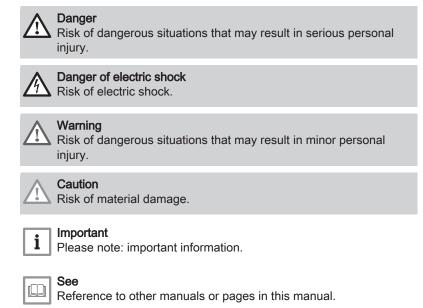
- Read and follow the instructions given in the manuals provided with the appliance.
- Call on a qualified professional to carry out installation and initial commissioning.
- Get your installer to explain your installation to you.
- Have the required inspections and maintenance carried out by a qualified installer.
- Keep the instruction manuals in good condition close to the appliance.

2 About this manual

2.1 Symbols used

2.1.1 Symbols used in the manual

This manual uses various danger levels to draw attention to special instructions. We do this to improve user safety, to prevent problems and to guarantee correct operation of the appliance.



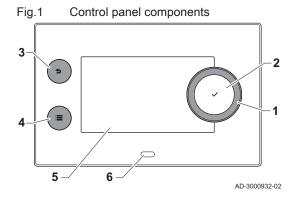
3 Description of the product

The Quinta Ace boiler is delivered with a combination of the control panel, control unit and extension PCB. The contents of this manual are based on the following software and navigation information:

Tab.1 Software and navigation information

	Name visible in display	Software version
Boiler Quinta Ace	FSB-WHB-HE-150-300	2.1
Control panel HMI T-control	МКЗ	1.29
PCB SCB-01	SCB-01	1.3

3.1 Control panel description



3.1.1 Control panel components

- 1 Rotary knob to select a tile, menu or setting
- 2 Confirm button \checkmark to confirm the selection
- 3 Back button **5**:
 - Short button press: Return to the previous level or previous menu
 - Long button press: Return to home screen
- 4 Menu button ≔ to go to the main menu
- 5 Display
- 6 Status LED

3.1.2 Description of the main menu

You can navigate from any menu directly to the main menu by pressing the menu button \equiv . The number of accessible menus depends on the access level (user or installer).

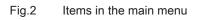
- A Date and time | Name of the screen (actual position in the menu)
- B Available menus
- C Brief explanation of the selected menu

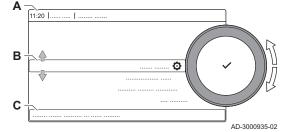
Tab.2 Available menus for the user

Description	Icon
System Settings	0
Version Information	i

Tab.3 Available menus for the installer

Description	Icon
Installation Setup	1
Commissioning Menu	
Advanced Service Menu	1
Error History	1
System Settings	0
Version Information	i





Meaning of the icons in the display

Гаb.4	lcons		
lcon	Description		
Å	User menu: user-level parameters can be configured.		
M	Installer menu: installer-level parameter can be configured.		
i	Information menu: read out various current values.		
Q	System settings: system parameters can be configured.		
×	Error indicator.		
Á	Gas boiler indicator.		
	Domestic hot water tank is connected.		
a (!	The outdoor temperature sensor is connected.		
a []	Boiler number in cascade system.		
È.	The solar calorifier is on and its heat level is displayed.		
11111	CH operation is enabled.		
JHK	CH operation is disabled.		
	DHW operation is enabled.		
×	DHW operation is disabled.		
6	The burner is on.		
K	The burner is off.		
7	Burner output level (1 to 5 bars, with each bar representing 20% output).		
	The pump is running.		
1	Three-way valve indicator.		
bar	Display of the system water pressure.		
	Chimney sweep mode is enabled (forced full load or low load for O ₂ /CO ₂ measurement).		
ECO	Energy-saving mode is enabled.		
A	DHW boost is enabled.		
	Timer program is enabled: The room temperature is controlled by a timer program.		
6	Manual mode is enabled: The room temperature is set to a fixed setting.		
1 0	Temporary overwrite of the timer program is enabled: The room temperature is changed temporarily.		
(Ê)	The holiday program (including frost protection) is active: The room temperature is reduced during your holiday to save energy.		
Â	Frost protection is enabled: Protect the boiler and installation from freezing in winter.		
	Installer contact details are displayed or can be filled in.		

Tab.5	.5 Icons - Zones		
Icon	Description		
٢	All zones (groups) icon.		
	Living room icon.		
	Kitchen icon.		
r=4	Bedroom icon.		
V∲n í	Study icon.		
	Cellar icon.		

User instructions 4

4.1 Home screen

The tiles on the home screen provide quick access to the corresponding menus. Use the rotary knob to navigate to the menu of your choice and press the ✓ button to confirm the selection. All options for change will appear in the display (Cannot edit read-only datapoint will appear in the display if a setting cannot be changed).

140.0		
Tile	Menu	Function
i	Information menu.	Read out various current values.
⊗	Error indicator.	Read out details about the current error.
		With some errors the I_{μ}^{c} icon will appear with installer contact details (when filled in).
(Î)	Holiday mode.	Set the start and end date of your holiday to lower the room and domestic hot water temperatures of all zones.
	Gas boiler indicator.	Read out burning details of the boiler and switch the heating function of the boiler on or off.
bar	Water pressure indicator.	Shows the water pressure. Top up the installation when the water pressure is too low.
1 26 , 2 8,	Heating circuit set-up.	Configure the settings per heating circuit.
⊫ , ¥∰,		
b. , 1111,		
۲		
	DHW setup.	Configure the domestic hot water temperatures.
an ℓ	Outdoor sensor setup.	Configure the temperature regulation using the outdoor sensor.

Tab.6 Selectable tiles for the user

4.2 Heating circuit configuration

For every heating circuit there is a quick user settings menu available. Select the heating circuit you want to configure by selecting the tile [1], [♣], [➡], [₩], [₩] or (♠]

Tab.7 Menu to configure a heating circuit

Icon	Menu	Function
to the second se	Scheduling	Set the scheduling mode and choose a timer program already created
6	Manual	Set the manual mode; the room temperature setpoint is set to a fixed setting
e o	Short temperature change	Set the temporary mode; the room temperature setpoint is changed tempora- rily
(ÎI)	Holiday	Set the start and end date of your holiday to lower the room temperature set- point.
	Antifrost	Set the frost protection mode; the minimum room temperature protects your system from freezing
ti ð	Set Heating Activity Temperatures	Set the room temperature setpoint for each activity of the timer program. See: Timer program to control the room temperature, page 13
Ø	Zone configuration	Access the settings for the configuration of the heating circuit.

Tab.8 Extended menu to configure a heating circuit **O** Zone configuration

Menu	Function
Short temperature change	Change the room temperature temporarily, if required
OperatingZoneMode	Select the heating operating mode: Scheduling, Manual or Antifrost
Manu ZoneRoomTempSet	Set the room temperature manually to a fixed setting

4 User instructions

Menu	Function
Heating Schedule	Create a timer program (up to 3 programs allowed). See: Creating a timer program, page 13
Set Heating Activity Temperatures	Set the room temperature for each activity of the timer program
ZoneTimeProg Select	Select a timer program (3 options)
Holiday Mode	Set the start and end date of your holiday and the reduced temperature for this zone
Zone friendly Name	Create or change the name of the heating circuit
Icon display zone	Select the icon of the heating circuit
OperatingZoneMode	Read the current operating mode of the heating circuit

4.3 Domestic hot water configuration

Configure the domestic hot water settings by selecting the tile [rightharpoonsignature]

Icon	Menu	Function	
to:	Scheduling	Set the timer program to control the DHW temperature.	
۹.	Manual	Set the manual mode; the DHW temperature is a fixed setting.	
R	Hot water boost	Set the temporary mode: change the DHW temperature temporarily.	
(Ê)	Holiday	Set the start and end date of your holiday to lower the domestic hot water temperature.	
豢	Antifrost	Activate the antifrost mode to protect your system from freezing.	
1	DHW comfort setpoint	Set the maximum DHW temperature.	
Q	Zone configuration	Configure the settings of the DHW circuit.	

Tab.9 Menu to configure domestic hot water

Tab.10	Extended menu to configure the domestic hot water circuit O Zone configuration
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Menu	Function		
Hot water boost	Change the DHW temperature temporarily.		
DHW Schedule	Create a timer program (up to 3 programs allowed).		
Domestic Hot Water Setpoints	Set the DHW temperatures for the timer program.		
DHW timeprog. select	Select a timer program (3 options).		
Holiday Mode	Set the start and end date of your holiday.		
DHW mode	Select the DHW operating mode: Scheduling, Manual or Antifrost.		

4.4 Display settings

Tab.11	Configure the display settings by pressing the [≔]-button and selecting System Settings Ø	Ł
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System Settings menu	Settings		
Set Date and Time	Set the currrent date and time		
Select Country and Language	Select your country and language		
Daylight Saving Time	Enable or disable daylight saving to save energy during summer		
Installer Details	Enter the name and phone number of the installer		
Set Heating Activity Names	Create the names for the activities of the timer program		
Set Screen Brightness	Adjust the brightness of the screen		
Set click sound	Enable or disable the click sound of the rotary knob		

4.5.1 Changing the display settings

- 1. Press the ≔ button.
- 2. Press the \checkmark button to confirm the selection.
- 3. Use the rotary knob to select **System Settings O**.
- Press the ✓ button to confirm the selection.
- 5. Perform one of the operations described in the table below:

Tab.12 Display settings

System Settings menu	Settings			
Set Date and Time	Set the current date and time			
Select Country and Language	Select your country and language			
Daylight Saving Time	Enable or disable daylight saving time			
Installer Details	Read out the name and phone number of the installer			
Set Heating Activity Names	Create the names for the activities of the timer program			
Set Screen Brightness	Adjust the brightness of the screen			
Set click sound	Enable or disable the click sound of the rotary knob			
License Information	Read out detailed license information from the device platform application			

4.5.2 Changing the name and symbol of a zone

The zones have a factory symbol and factory name. You can change the name and symbol of a zone.

- 1. Select the tile of the zone you want to change.
- 2. Press the ✓ button to confirm the selection.
- 3. Use the rotary knob to select **O** Zone configuration
- 4. Press the ✓ button to confirm the selection.
- 5. Use the rotary knob to select Zone friendly Name
- 6. Press the \checkmark button to confirm the selection.

⇒ A keyboard with letters, numbers and symbols is shown.

- 7. Change the name of the zone (20 characters maximum):
 - 7.1. Use the rotary knob to select a letter, number or action.

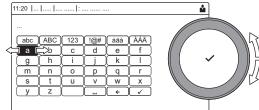
 - Press the ✓ button to confirm or to repeat a letter, number or symbol.
 - 7.4. Select **u** to add a space.
- 8. Select the ✓ sign on the screen when the name is complete.
- 9. Press the \checkmark button to confirm the selection.
- 10. Use the rotary knob to select **Icon display zone**.
- 11. Press the ✓ button to confirm the selection.
 - ⇒ All available icons appear in the display.
- 12. Use the rotary knob to select the desired symbol of the zone.
- 13. Press the \checkmark button to confirm the selection.

4.5.3 Changing the name of an activity

You can change the names of the activities in the timer program.

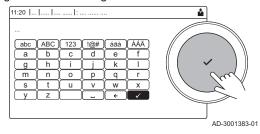
- 1. Press the \equiv button.
- 2. Use the rotary knob to select System Settings Q.
- 3. Press the ✓ button to confirm the selection.
- 4. Use the rotary knob to select Set Heating Activity Names.

Fig.3 Letter selection



AD-3001382-01

Fig.4 Confirm sign



- 5. Press the \checkmark button to confirm the selection.
 - ⇒ A list of 6 activities and their standard names is shown:

Activity 1	Sleep
Activity 2	Home
Activity 3	Away
Activity 4	Morning
Activity 5	Evening
Activity 6	Custom

- 6. Use the rotary knob to select an activity.
- 7. Press the \checkmark button to confirm the selection.
 - \Rightarrow A keyboard with letters, numbers and symbols is shown.
- 8. Change the name of the activity:
 - 8.1. Press the rotary knob \checkmark to repeat a letter, number or symbol.
 - 8.2. Select **←** to delete a letter, number or symbol.
 - 8.3. Select **u** to add a space.
- 9. Select the \checkmark sign on the screen when the name is complete.
- 10. Press the \checkmark button to confirm the selection.

4.6 Changing the room temperature of a zone

4.6.1 Changing the operating mode of a zone

To regulate the room temperature of the different areas of the house, you can choose from 5 operating modes:

- 1. Select the tile of the zone you want to change.
- 2. Press the ✓ button to confirm the selection. ⇒ The **Zone QuickSelect** menu opens.
- 3. Use the rotary knob to select the desired operating mode:

Tab.13 Operating modes

Icon	Mode	Description
	Scheduling	The room temperature is controlled by a timer program
6	Manual The room temperature is set to a fixed setting	
ec.	Short temperature change The room temperature is changed temporarily	
	Holiday	The room temperature is reduced during your holiday to save energy
Â	Antifrost	Protect the boiler and installation from freezing in winter

4. Press the ✓ button to confirm the selection.

4.6.2 Changing the room temperature temporarily

Regardless of the operating mode selected for a zone, it is possible to change the room temperature for a short period. After this period has elapsed, the selected operating mode resumes.



| Important

The room temperature can only be adjusted in this way if a room temperature sensor/thermostat is installed.

- 1. Select the tile of the zone you want to change.
- 2. Press the ✓ button to confirm the selection.
- 3. Use the rotary knob to select 🍟 Short temperature change.
- 4. Press the ✓ button to confirm the selection.
- 5. Set the duration in hours and minutes.
- 6. Press the \checkmark button to confirm the selection.
- 7. Set the temporary room temperature.
- 8. Press the \checkmark button to confirm the selection.
 - ⇒ The Short temperature change menu shows the duration and the temporary temperature.

4.6.3 Timer program to control the room temperature

Creating a timer program

A timer program allows you to vary the room temperature per hour and per day. The room temperature is linked to the activity of the timer program.



You can create up to three timer programs per zone. For example, you can create a program for a week with normal working hours and a programme for a week when you are at home most of the time.

- 1. Select the tile of the zone you want to change.
- 2. Press the 🗸 button to confirm the selection.
- 3. Use the rotary knob to select **O** Zone configuration.
- Press the ✓ button to confirm the selection.
- 5. Use the rotary knob to select Heating Schedule.
- 6. Press the \checkmark button to confirm the selection.
- 7. Use the rotary knob to select the timer program you want to modify: Schedule 1, Schedule 2 or Schedule 3.
- 8. Press the ✓ button to confirm the selection.
 - ⇔ Activities scheduled for Monday are displayed. The last scheduled activity of a day is active until the first activity of the next day. At initial start-up, all weekdays have two standard activities; Home starting at 6:00 and Sleep starting at 22:00.
- 9. Use the rotary knob to select the weekday you want to modify.
 - A Weekday
 - B Overview of scheduled activities
 - C List of actions
- 10. Perform the following actions, if necessary:
 - 10.1. Edit the start time and/or activity of a scheduled activity.
 - 10.2. Add a new activity.
 - 10.3. **Delete** a scheduled activity (select the activity **Delete**).
 - 10.4. Copy the scheduled activities of the weekday to other days.
 - 10.5. Change the temperature linked to an activity.

Activating a timer program

In order to use a timer program, it is necessary to activate the operating mode **Scheduling**. This activation is done separately for each zone.

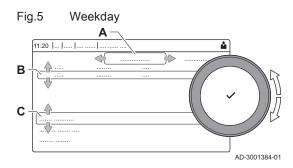
- 1. Select the tile of the zone you want to change.
- 2. Press the ✓ button to confirm the selection.
- 3. Use the rotary knob to select Scheduling.
- 4. Press the \checkmark button to confirm the selection.
- 5. Use the rotary knob to select the timer program Schedule 1, Schedule 2 or Schedule 3.
- 6. Press the ✓ button to confirm the selection.

4.7 Changing the domestic hot water temperature

4.7.1 Changing the domestic hot water operating mode

For hot water production, you can choose from 5 operating modes:

- 1. Select the tile [#].
- 2. Press the \checkmark button to confirm the selection.
 - $\Rightarrow \mathsf{The} \; \textbf{DHW} \; \textbf{QuickSelect} \; \mathsf{menu} \; \mathsf{opens}.$



3. Use the rotary knob to select the desired operating mode:

Tab.14 DHW operating modes

lcon	Mode	Description			
	Scheduling	The domestic hot water temperature is controlled by a timer program			
6	Manual	The domestic hot water temperature is set to a fixed setting			
R	Hot water boost	The domestic hot water temperature is increased temporarily			
(Î)	Holiday	The domestic hot water temperature is reduced during your holiday to save energy			
Â	Antifrost	Protect the boiler and installation from freezing in winter			

4. Press the ✓ button to confirm the selection.

4.7.2 Increasing the domestic hot water temperature temporarily

Regardless of the operating mode selected for domestic hot water production, it is possible to increase the domestic hot water temperature for a short period. After this period the hot water temperature decreases to the **Reduced** setpoint.



Important

The domestic hot water temperature can only be adjusted in this way if a domestic hot water sensor is installed.

- 1. Select the tile [
- 2. Press the \checkmark button to confirm the selection.
- 3. Use the rotary knob to select 🔐 Hot water boost.
- 4. Press the ✓ button to confirm the selection.
- 5. Set the duration in hours and minutes.
- 6. Press the ✓ button to confirm the selection.
 - ⇒ The temperature is increased to the DHW comfort setpoint.

4.7.3 Changing the comfort and reduced hot water temperature

You can change the comfort and reduced hot water temperature in the timer program.

- 1. Select the tile [
- 2. Select **O** Zone configuration > Domestic Hot Water Setpoints.
- 3. Select the DHW setpoint you want to change:
 - 3.1. **DHW comfort setpoint**: The DHW temperature when the hot water production is switched on.
 - 3.2. **DHW reduced setpoint**: The DHW temperature when the hot water production is switched off.
- 4. Change the temperature of the selected setpoint

4.7.4 Timer program to control the DHW temperature

Creating a timer program

A timer program allows you to vary the domestic hot water temperature per hour and per day. The hot water temperature is linked to the activity of the timer program.



You can create up to three timer programs. For example, you can create a program for a week with normal working hours and a programme for a week when you are at home most of the time.

- 1. Select the tile [#].
- 2. Press the \checkmark button to confirm the selection.
- 3. Use the rotary knob to select **O** Zone configuration.
- 4. Press the \checkmark button to confirm the selection.

- 5. Use the rotary knob to select DHW Schedule.
- 6. Use the rotary knob to select the timer program you want to modify: Schedule 1, Schedule 2 or Schedule 3.
- 7. Press the \checkmark button to confirm the selection.
 - ⇒ Activities scheduled for Monday are displayed. The last scheduled activity of a day is active until the first activity of the next day. The scheduled activities are shown. At initial start-up, all weekdays have two standard activities; **Comfort** starting at 6:00 and **Reduced** starting at 22:00.
- 8. Use the rotary knob to select the weekday you want to modify.
 - A Weekday
- **B** Overview of scheduled activities
- C List of actions
- 9. Perform the following actions, if necessary:
 - 9.1. Edit the start time and/or activity of a scheduled activity.
 - 9.2. Add a new activity.
 - 9.3. **Delete** a scheduled activity (select the activity **Delete**).
 - 9.4. Copy the scheduled activities of the weekday to other days.
 - 9.5. Change the temperature linked to an activity.

Activating a DHW timer program

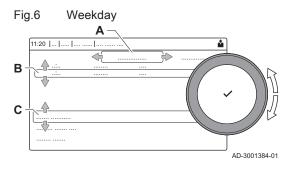
In order to use a DHW timer program, it is necessary to activate the operating mode **Scheduling**. This activation is done separately for each zone.

- 1. Select the tile [#].
- 2. Press the \checkmark button to confirm the selection.
- 3. Use the rotary knob to select 🖾 Scheduling.
- 4. Press the ✓ button to confirm the selection.
- 5. Use the rotary knob to select the DHW timer program **Schedule 1**, **Schedule 2** or **Schedule 3**.
- 6. Press the ✓ button to confirm the selection.

4.8 Activating holiday programs for all zones

If you go on holiday, the room temperature and domestic hot water temperature can be reduced to save energy. With the following procedure you can activate the holiday mode for all zones and domestic hot water temperature.

- 1. Select the tile [I].
- 2. Press the \checkmark button to confirm the selection.
 - ⇒ The Holiday Mode menu opens.
- 3. Use the rotary knob to select Start date holiday.
- 4. Press the \checkmark button to confirm the selection.
- ⇒ The current date is displayed as start date of your holiday.
 5. Change the start date, if necessary.
- 6. Press the \checkmark button to confirm the selection.
- 7. Use the rotary knob to select End date holiday.
- 8. Press the \checkmark button to confirm the selection.
- ⇒ The day after the start date of your holiday is displayed.
- 9. Change the end date, if necessary.
- 10. Press the \checkmark button to confirm the selection.
- 11. Use the rotary knob to select **Wished room zone temperature on** holiday period.
- 12. Press the ✓ button to confirm the selection.
 ⇒ The room temperature for the holiday period is displayed.
- 13. Change the temperature, if necessary.
- Press the ✓ button to confirm the selection. You can reset or cancel the holiday program by selecting **Reset** in the holiday mode menu.



4.9 Switching the central heating on or off

You can switch off the central heating function of the boiler to save energy, for example during the summer period.

- 1. Select the tile [
- 2. Press the ✓ button to confirm the selection.
- 3. Use the rotary knob to select CH function on.
- 4. Press the \checkmark button to confirm the selection.
- 5. Use the rotary knob to select the following setting:
 - 5.1. **Off** to switch off the central heating function.
 - 5.2. On to switch the central heating function on again.

i Important

Frost protection is not available when the central heating function is switched off.

6. Press the ✓ button to confirm the selection.

4.10 Reading the installer's name and phone number

The installer can set his name and phone number in the control panel. You can read this information when you want to contact the installer.

- 1. Press the ≔ button.
- 2. Press the \checkmark button to confirm the selection.
- 3. Select System Settings 🖸
- 4. Press the ✓ button to confirm the selection.
- 5. Select Installer Details
- 6. Press the \checkmark button to confirm the selection.
 - ⇒ The installer's name and phone number is shown.

5 Installer instructions

5.1 Initial start-up

Commissioning menu	Message	Setting	
	Select country	Country where boiler is installed	
Automatic display after initial installation	Select language	Preferred language	
and start-up of the boiler	Enable Daylight Saving Time	Off	
	Set Date and Time	Year/Month/Day	

5.2 Accessing the installer level

Some parameters that may affect the operation of the boiler are protected by an access code. Only the installer is allowed to modify these parameters.

- 1. Select the tile [#].
- 2. Press the \checkmark button to confirm the selection.
- 3. Use the rotary knob to select code: 0012.
- 4. Press the \checkmark button to confirm the selection.
- ⇒ When the installer level is enabled, the status of the tile [∦] changes from Off into On.
- 5. To leave the installer level, select the tile [|].
- 6. Use the rotary knob to select Confirm or Cancel.
- 7. Press the \checkmark button to confirm the selection.
 - ⇒ When the installer level is disabled, the status of the tile [∦] changes from On into Off.

When the control panel is not used for 30 minutes, the installer level is left automatically.

5.3 Configuring the installation at installer level

Configure the installation by pressing the \coloneqq button and selecting **Installation Setup** \Re . Select the control unit or circuit board you want to configure:

Tab.15 FSB-WHB-HE-150-300

Icon	Zone or function	Description		
11111	CIRCA / CH	Central heating circuit		
	Commercial boiler	Gas boiler		

Tab.16 Configuring a zone or function of FSB-WHB-HE-150-300 or

Parameters, counters, signals	Description		
Parameters	Set the parameters at installer level		
Counters	Read the counters at installer level		
Signals	Read the signals at installer level		
Adv. Parameters	Set the parameters at advanced installer level		
Adv. Counters	Read the counters at advanced installer level		
Adv. Signals	Read the signals at advanced installer level		

5.3.1 Setting the installer details

You can store your name and phone number in the control panel to be read by the user.

1. Press the ≔ button.

Fig.7	7 Ins	stalle	r level			
00	:12				é	
ĺ	D :					
-		0 0	0 D 1	1	Ê−(∕	
		1	1 2	3		
		2 2	2 3	4		
		3	3 4	5		
		4	4 5	6		
						AD-3001378-02

- 2. Use the rotary knob to select **System Settings Q**.
- 3. Press the ✓ button to confirm the selection.
- 4. Use the rotary knob to select Installer Details.
- 5. Press the \checkmark button to confirm the selection.
- 6. Enter the following data:

Installer name	Name of the installer
Installer phone	Phone number of the installer

5.3.2 Setting the parameters

You can change the parameters and settings of the appliance and the connected control boards, sensors etc. to configure the installation.

- 1. Press the ≔ button.
- 2. Use the rotary knob to select Installation Setup.
- 3. Press the \checkmark button to confirm the selection.
- Use the rotary knob to select the zone or device you want to configure.
- 5. Press the \checkmark button to confirm the selection.
- 6. Use the rotary knob to select Parameters, counters, signals.
- 7. Press the ✓ button to confirm the selection.
- 8. Use the rotary knob to select Parameters to change a parameter.
- 9. Press the \checkmark button to confirm the selection.
- 10. If available, select **Adv. Parameters** to change a parameter at the advanced installer level.
 - A Parameters
 - Counters
 - Signals
 - Adv. Parameters
 - Adv. Counters
 - Adv. Signals
 - B List of settings or values

The boiler's control unit is set for the most common central heating systems. These settings will ensure that virtually every central heating system operates effectively. The user or the installer can optimise the parameters as required.

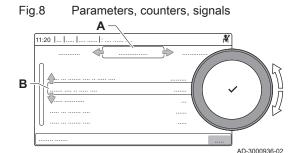
Caution

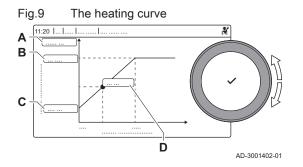
Changing the factory settings may adversely affect the operation of the boiler.

5.3.3 Setting the heating curve

When an outdoor temperature sensor is connected to the installation, the relation between the outdoor temperature and the central heating flow temperature is controlled by a heating curve. This curve can be adjusted to the requirements of the installation.

- 1. Select the tile of the zone you want to configure.
- 2. Press the ✓ button to confirm the selection.
- 3. Use the rotary knob to select Control strategy.
- 4. Press the ✓ button to confirm the selection.
- 5. Use the rotary knob to select the setting **Outdoor Temp. based** or **Outdoor & room based**.
- 6. Press the \checkmark button to confirm the selection.
 - ⇒ The option **Heating Curve** appears in the **Zone setup** menu.
- 7. Use the rotary knob to select Heating Curve.
- 8. Press the \checkmark button to confirm the selection.
 - ⇒ A graphic display of the heating curve is shown.





9. Adjust the following parameters:

Tab.17	Settings
100.17	Octimiga

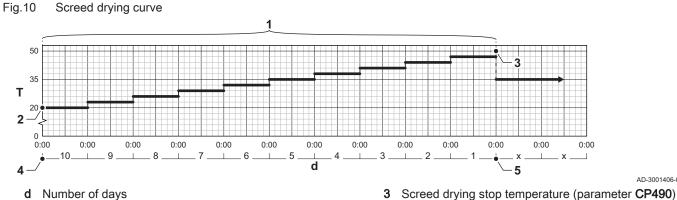
100.1	/ Oottingo		
A	Slope:	Slope of the heating curve:Floor heating circuit: slope between 0.4 and 0.7Radiator circuit: slope at approximately 1.5	
В	Max:	Maximum temperature of the heating circuit	
С	Base:	Ambient temperature setpoint	
D	xx°C ; xx °C	Relationship between the heating circuit flow temperature and the outdoor temperature. This information is visible throughout the slope.	

5.3.4 Screed drying

The screed drying function is used to force a constant flow temperature or a series of successive temperature levels to accelerate screed drying on underfloor heating.

Important i

- The settings for these temperatures must follow the screed layer's recommendations.
- Activation of this function via the parameter CP470 forces the permanent display of the screed drying function and deactivates all other regulator functions.
- · When the screed drying function is active on one circuit, all other circuits and the domestic hot water circuit continue to run.
- · It is possible to use the screed drying function on circuits A and B. The parameter settings must be made on the PCB that controls the circuit concerned.



- Т Heating set point temperature
- 1 Number of days on which the screed drying function is activated (parameter CP470)
- 2 Screed drying start temperature (parameter CP480)
- Important

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4

5

running

Every day at midnight, the screed drying start temperature set point is recalculated and the remaining number of days on which the screed drying function is running decreases.

Start of the screed drying function

End of the screed drying function, back to normal

5.4 Commissioning the installation

The commissioning menu shows submenus and tests needed for the commissioning of the appliance.

- 1. Press the ≔ button.
- 2. Select Commissioning Menu.
- 3. Select the submenu with settings you want to change or the test you want to perform.

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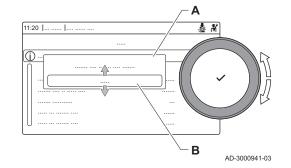
Load test

Fig.11

5.4.1 Chimney sweep menu

Select the tile [4] to open the chimney sweep menu. The **Change load** test mode menu will appear:

- A Change load test mode
- B Load test mode



Tab.18 Load tests in the chimney sweep menu 🎍

Change load test mode	Settings
Off	No test
Low power	Part load test
Medium power	Full load test for Central Heating mode
High power	Full load test for Central Heating + Domestic Hot Water mode

Tab.19 Load test settings

Load Test menu	Settings
Func. test status	Select the load test to start the test.
System Flow Temp	Read the central heating flow temperature
T return	Read the central heating return temperature
Actual fan RPM	Read the actual fan speed
Actual flame current	Read the actual flame current
Fan RPM Max CH	Adjust the maximum fan speed during Central Heating mode
Fan RPM Min	Adjust the minimum fan speed during Central Heating + Domestic Hot Water mode
Fan RPM Start	Adjust the start fan speed

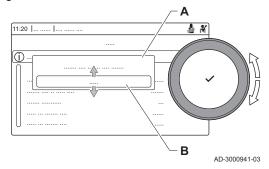
Performing the full load test

- 1. Select the tile [4].
- ⇒ The Change load test mode menu appears.
- 2. Select the test Medium power.
 - A Change load test mode
 - B Medium power
 - ⇒ The full load test starts. The selected load test mode is shown in the menu and the icon appears in the top right of the screen.
- 3. Check the load test settings and adjust if necessary. ⇒ Only the parameters shown in bold can be changed.

Performing the low load test

 If the full load test is still running, press the ✓ button to change the load test mode.

Fig.12 Full load test



2. If the full load test was finished, select the tile [🎍] to restart the chimney sweep menu.

A Change load test mode

B Low power

- 3. Select the Low power test in the menu Change load test mode.
 ⇒ The low load test starts. The selected load test mode is shown in the menu and the icon appears in the top right of the screen.
- Check the load test settings and adjust if necessary.
- ⇒ Only the parameters shown in bold can be changed.
 5. End the low load test by pressing the **1** button.
 - ⇒ The message **Running load test(s) stopped!** is displayed.

5.4.2 Saving the commissioning settings

You can save all current settings on the control panel. These settings can be restored if necessary, for example after replacement of the control unit.

- 1. Press the ≔ button.
- 2. Use the rotary knob to select Advanced Service Menu.
- 3. Press the \checkmark button to confirm the selection.
- 4. Use the rotary knob to select Save as commissioning settings.
- 5. Press the ✓ button to confirm the selection.
- 6. Select **Confirm** to save the settings.

When you have saved the commissioning settings, the option **Revert** commissioning settings becomes available in the **Advanced Service Menu**.

5.5 Maintaining the installation

Fig.13

11:20

Low load test

N.

В

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5.5.1 Viewing the service notification

When a service notification appears on the display, you can view the details of the notification.

- 1. Select the tile $[\mathbf{y}_{c}^{\mathsf{L}}]$.
- 2. Press the ✓ button to confirm the selection.
- ⇒ The View Service Notification menu opens.
- 3. Use the rotary knob to select the parameter or value you want to view.

5.5.2 Reading out measured values

The control unit continually registers various values from the boiler and the connected sensors. These values can be read on the control panel of the boiler.

- 1. Select the tile [#].
- 2. Press the ✓ button to confirm the selection.
- 3. Use the rotary knob to select code: 0012.
- Press the ✓ button to confirm the selection.
- ⇒ When the installer level is enabled, the status of the tile [∦] changes from Off into On.
- 5. Press the ≔ button.
- 6. Use the rotary knob to select Installation Setup.
- 7. Press the \checkmark button to confirm the selection.
- 8. Use the rotary knob to select the zone or device you want to read out.
- 9. Press the \checkmark button to confirm the selection.
- 10. Use the rotary knob to select Parameters, counters, signals.
- 11. Press the \checkmark button to confirm the selection.
- 12. Use the rotary knob to select **Counters** or **Signals** to read out a counter or signal.
- Press the ✓ button to confirm the selection.



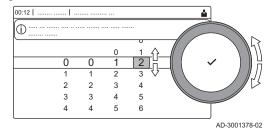
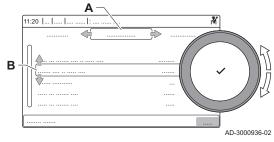


Fig.15 Parameters, counters, signals



- 14. If available, select **Adv. Counters** or **Adv. Signals** to read out counters or signals at the advanced installer level.
 - A Parameters
 - Counters
 - Signals
 - Adv. Parameters
 - Adv. Counters
 - Adv. Signals
 - B List of settings or values

5.5.3 Viewing production and software information

You can read details about the production dates, hardware and software versions of the appliance and all connected devices.

- 1. Press the ≔ button.
- 2. Use the rotary knob to select Version Information.
- 3. Press the \checkmark button to confirm the selection.
- Use the rotary knob to select the appliance, control board or any other device you want to view.
 - A Select the appliance, control board or device
 - B List of information
- 5. Press the \checkmark button to confirm the selection.
- 6. Use the rotary knob to select the information you want to view.

5.5.4 Changing the domestic hot water temperature temporarily

When the timer program is active with a reduced domestic hot water temperature, you can temporarily increase the hot water temperature for e.g. testing of the hot water production.

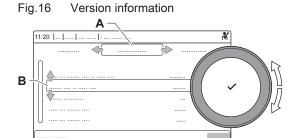
- 1. Press the ≔ button.
- 2. Use the rotary knob to select Installation Setup.
- 3. Press the \checkmark button to confirm the selection.
- 4. Use the rotary knob to select Internal DHW.
- 5. Press the ✓ button to confirm the selection.
- 6. Use the rotary knob to select Hot water boost.
- 7. Press the \checkmark button to confirm the selection.
- 8. Use the rotary knob to select Duration of temporary overwrite .
- 9. Press the \checkmark button to confirm the selection.
- 10. Set the duration in hours and minutes.
 - ⇒ The hot water temperature is increased to the DHW comfort setpoint.

You can delete or abort the temporary overwrite by selecting Reset.

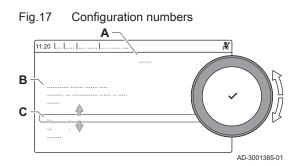
5.6 Resetting or restoring settings

5.6.1 Resetting the configuration numbers CN1 and CN2

The configuration numbers must be reset when indicated by an error message or when the control unit has been replaced. The configuration numbers can be found on the data plate of the appliance.



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Important

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All custom settings will be erased when the configuration numbers are reset. Depending on the appliance, there can be factory set parameters to enable certain accessories.

- Use the saved commissioning settings to restore these settings after the reset.
- If no commissioning settings were saved, write down custom settings before resetting. Include all relevant accessory related parameters.
- A Select the control unit
- **B** Extra information
- C Configuration numbers
- 1. Press the ≔ button.
- 2. Use the rotary knob to select Advanced Service Menu.
- 3. Press the \checkmark button to confirm the selection.
- 4. Use the rotary knob to select Set Configuration Numbers.
- 5. Press the \checkmark button to confirm the selection.
- 6. Use the rotary knob to select the device you want to reset.
- 7. Press the \checkmark button to confirm the selection.
- 8. Use the rotary knob to select and change the CN1 setting.
- 9. Press the \checkmark button to confirm the selection.
- 10. Use the rotary knob to select and change the CN2 setting.
- 11. Press the 🗸 button to confirm the selection.
- 12. Use the rotary knob to select **Confirm** to confirm the changed numbers.
- 13. Press the 🗸 button to confirm the selection.

5.6.2 Carrying out an auto detect

The auto detect-function scans for devices and appliances connected to the L-Bus and S-Bus. This function must be used when a PCB has been replaced or removed from the boiler.

- 1. Press the ≔ button.
- 2. Use the rotary knob to select Advanced Service Menu.
- 3. Press the ✓ button to confirm the selection.
- 4. Use the rotary knob to select **Auto Detect**.
- 5. Use the rotary knob to select Confirm to carry out the auto-detect.
- 6. Press the \checkmark button to confirm the selection.

5.6.3 Restoring the commissioning settings

This option is only available when the commissioning settings were saved on the control panel and allows you to restore these settings.

- 1. Press the ≔ button.
- 2. Use the rotary knob to select Advanced Service Menu.
- 3. Press the \checkmark button to confirm the selection.
- 4. Use the rotary knob to select Revert commissioning settings.
- 5. Press the \checkmark button to confirm the selection.
- Use the rotary knob to select **Confirm** to restore the commissioning settings.
- 7. Press the ✓ button to confirm the selection.

5.6.4 Resetting to factory settings

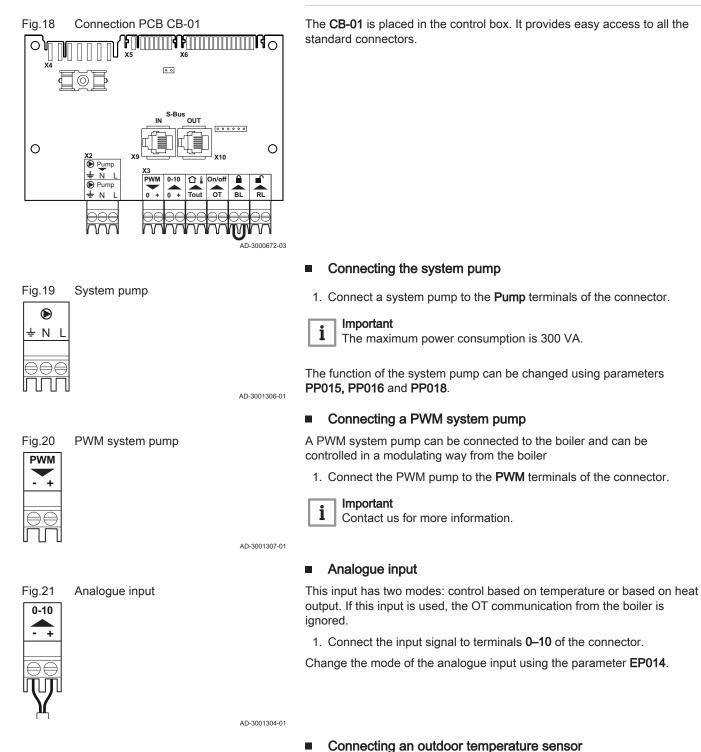
You can reset the boiler to the default factory settings.

- 1. Press the ≔ button.
- 2. Use the rotary knob to select Advanced Service Menu.
- 3. Press the \checkmark button to confirm the selection.
- 4. Use the rotary knob to select Reset to Factory Settings.

- 5. Press the \checkmark button to confirm the selection.
- 6. Use the rotary knob to select **Confirm** to restore the factory settings.
- 7. Press the \checkmark button to confirm the selection.

6 Installation

6.1 Electrical connections



6.1.1 The CB-01 connection PCB

An outdoor temperature sensor can be connected to the Tout connector.

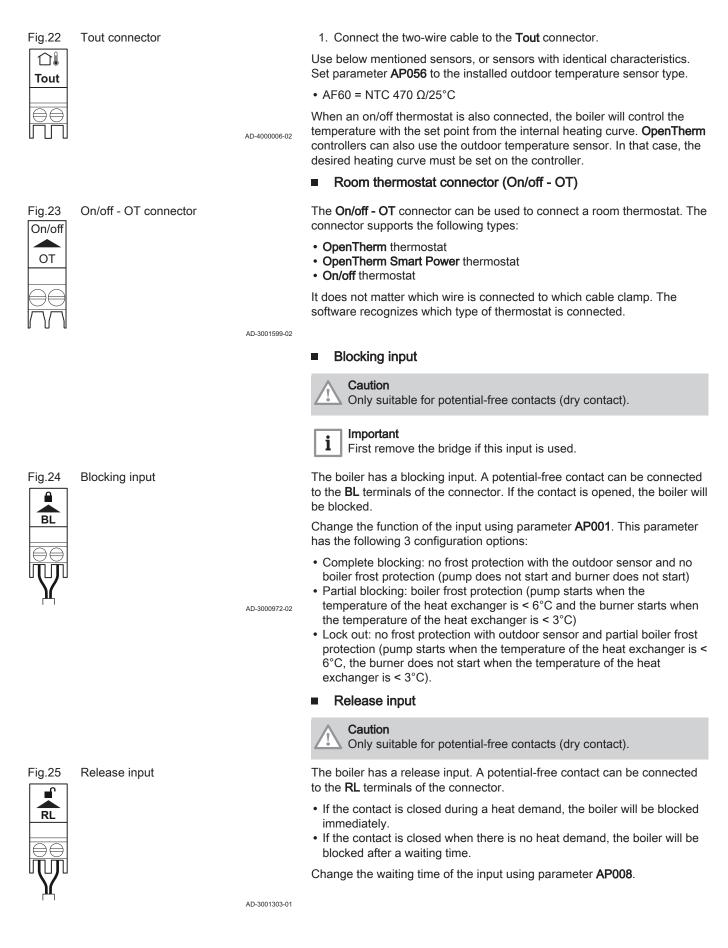


Fig.26 SCB-01 PCB

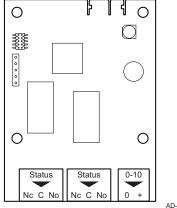


Fig.27 Statu	s notifications
--------------	-----------------

Status A		Status B		sВ
	-			-
Nc C	No	Nc	С	No
	_	0	_	_
$\ominus \ominus$	⊜	\ominus	\ominus	\ominus
	Π			Π

0-10 V output connector

Fig.28

6.1.2 The SCB-01 expansion PCB

The SCB-01 has the following features:

- · Two potential free contacts for status notifications
- 0-10 V output connection for a PWM system pump

Expansion PCBs are automatically recognised by the control unit of the boiler. If expansion PCBs are removed, the boiler will show an error code. To resolve this error, an auto-detect must be carried out after removal.

AD-3001514-01

Connecting status notifications

The two potential-free contacts, **Status**, can be configured as required. Depending on the setting, a particular status can be transmitted by the boiler.

Connect a relais as follows:

- Nc Normally closed contact. Contact will open when status occurs.
- C Main contact.
- No Normally opened contact. Contact will close when status occurs.

Select the desired status notification (setting) using parameter **EP018** and **EP019**.

AD-3001312-01

AD-3001305-01

Connecting 0–10 V output

The **0-10** contact can be used to connect a PWM system pump. The speed of the pump is modulated based on the signal received from the boiler. Depending on the make and type of pump, the pump can be controlled by a 0-10 V or a PWM signal.

Connect the system pump controller to connector 0-10.

- Select the type of signal that will be sent from the boiler using the parameter **EP029**.
- Select the type of signal that controls the pump using the parameter EP028.



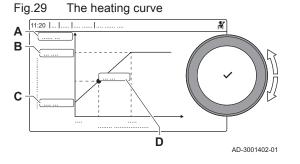
- If possible, use the pump modulation signal. This provides the most accurate pump control.
- If the automatic burner unit does not support pump modulation, the pump will behave as an on/off pump.

7 Operation

7.1 Setting the heating curve

When an outdoor temperature sensor is connected to the installation, the relation between the outdoor temperature and the central heating flow temperature is controlled by a heating curve. This curve can be adjusted to the requirements of the installation.

- 1. Select the tile of the zone you want to configure.
- Press the ✓ button to confirm the selection.
- 3. Use the rotary knob to select **Control strategy**.
- 4. Press the ✓ button to confirm the selection.
- 5. Use the rotary knob to select the setting **Outdoor Temp. based** or **Outdoor & room based**.
- 6. Press the ✓ button to confirm the selection.
- ⇒ The option **Heating Curve** appears in the **Zone setup** menu.
- 7. Use the rotary knob to select Heating Curve.
- 8. Press the ✓ button to confirm the selection.
- ⇒ A graphic display of the heating curve is shown.
- 9. Adjust the following parameters:



7.2 Screed drying

Tab.20 Settings Slope: Α Slope of the heating curve: Floor heating circuit: slope between 0.4 and 0.7 • Radiator circuit: slope at approximately 1.5 В Max: Maximum temperature of the heating circuit С Base: Ambient temperature setpoint xx°C ; xx D Relationship between the heating circuit flow °C temperature and the outdoor temperature. This information is visible throughout the slope.

The screed drying function is used to force a constant flow temperature or a series of successive temperature levels to accelerate screed drying on underfloor heating.

Important

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- The settings for these temperatures must follow the screed layer's recommendations.
- Activation of this function via the parameter CP470 forces the permanent display of the screed drying function and deactivates all other regulator functions.
- When the screed drying function is active on one circuit, all other circuits and the domestic hot water circuit continue to run.
- It is possible to use the screed drying function on circuits A and B. The parameter settings must be made on the PCB that controls the circuit concerned.

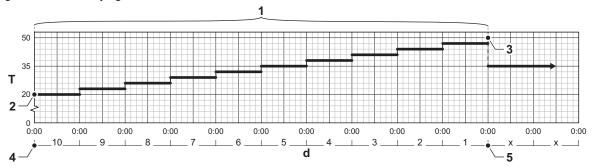


Fig.30 Screed drying curve

AD-3001406-01

- d Number of days
- T Heating set point temperature
- 1 Number of days on which the screed drying function is activated (parameter CP470)
- 2 Screed drying start temperature (parameter CP480)
- 3 Screed drying stop temperature (parameter CP490)
- 4 Start of the screed drying function
- 5 End of the screed drying function, back to normal running
- i

Important

Every day at midnight, the screed drying start temperature set point is recalculated and the remaining number of days on which the screed drying function is running decreases.

7.3 **Frost protection**

Caution

- Drain the boiler and central heating system if you are not going to use your home or the building for a long time and there is a chance of frost.
- · The frost protection does not work if the boiler is out of operation.
- The built-in boiler protection is only activated for the boiler and not for the system and radiators.
- · Open the valves of all the radiators connected to the system.

Set the temperature control low, for example to 10°C.

If there is no heat demand, the boiler will only switch on to protect itself against frost.

If the temperature of the central heating water in the boiler drops too low, the built-in boiler protection system is activated. This system works as follows:

- At a water temperature lower than 7°C, the heating pump starts.
- If the water temperature is lower than 4°C, the boiler switches on.
- If the water temperature is higher than 10°C the boiler switches off and the circulation pump continues to run for a short time.

To prevent the system and radiators freezing in frost-sensitive areas (e.g. a garage), a frost thermostat or outside sensor can be connected to the boiler.

Settings 8

8.1 List of parameters

The code of the parameters always contain two letters and three numbers. The letters stand for:

- AP Appliance related parameters
- CP Zone related parameters
- DP Domestic hot water related parameters
- EΡ Smart Solutions related parameters
- Gas-fired heat engine related parameters GP
- PP Central heating related parameters

Important

i All possible options are indicated in the adjustment range. The display of the boiler only shows the relevant settings for the appliance.

8.1.1 SCB-01 expansion PCB settings

Tab.21 Navigation for installer level

Level	Menu path		
Installer	= > Installation Setup > SCB-01 > Submenu (1) > Parameters, counters, signals > Parameters		
(1) See the column "Submenu" in the following table for the correct navigation. The parameters are grouped in specific functionalities.			

Tab.22 Factory settings at installer level

Code	Display text	Description	Range	Subme- nu	Default setting
EP018 Status	Status relay func.	Status relay function	0 = No Action 1 = Alarm 2 = Alarm Inverted 3 = Burning 4 = Not burning 5 = Reserved 6 = Reserved 7 = Service request	Status informati on	0
	Ctables relay from	Chature relay function	8 = Boiler on CH 9 = Boiler on DHW 10 = CH pump on 11 = Locking or Blocking 12 = Cooling mode	Otatua	0
EP019	Status relay func.	Status relay function	0 = No Action 1 = Alarm 2 = Alarm Inverted 3 = Burning 4 = Not burning 5 = Reserved 6 = Reserved 7 = Service request 8 = Boiler on CH 9 = Boiler on DHW 10 = CH pump on	Status informati on	0
			11 = Locking or Blocking 12 = Cooling mode		

Code	Display text	Description	Range	Subme- nu	Default setting
EP028	Function 10V- PWM	Selects the function of the 0-10 Volt output	0 = 0-10V 1 (Wilo) 1 = 0-10V 2 (Gr. GENI) 2 = PWM signal (Solar) 3 = 0-10V 1 limited 4 = 0-10V 2 limited 5 = PWM signal limited 6 = PWM signal (UPMXL)	0-10 volt or PWM out	0
EP029	Source 10V-PWM	Selects the source signal for the 0-10 Volt output	0 = PWM 1 = Requested power 2 = Actual power	0-10 volt or PWM out	0

8.2 List of measured values

8.2.1 SCB-01 expansion PCB counters

Tab.23 Navigation for basic installer level

Level	Menu path		
Basic installer	= > Installation Setup > SCB-01 > Submenu ⁽¹⁾ > Parameters, counters, signals > Counters		
(1) See the column "Submenu" in the following table for the correct navigation. The counters are grouped in specific functionalities.			

Tab.24 Counters at basic installer level

Code	Display text	Description	Range	Submenu
AC001	Hours on mains	Number of hours that the appliance has	0 Hours - 4294967295 Hours	System
		been on mains power		Functionality

8.2.2 SCB-01 expansion PCB signals

Tab.25 Navigation for basic installer level

Level	Menu path	
Basic installer	= > Installation Setup > SCB-01 > Submenu (1) > Parameters, counters, signals > Signals	
(1) See the column "Submenu" in the following table for the correct navigation. The signals are grouped in specific functionalities.		

Tab.26 Signals at basic installer level

Code	Display text	Description	Range	Submenu
AM010	Pump speed	The current pump speed	0 % - 100 %	0-10 volt or PWM out
AM012	Status Appliance	Current main status of the appliance.	See Status and sub-status, page 32	System Functionality
AM014	Sub status Appliance	Current sub status of the appliance.	See Status and sub-status, page 32	System Functionality
AM015	Pump running?	Is the pump running?	0 = Inactive 1 = Active	0-10 volt or PWM out
GM011	Power setpoint	Power setpoint in % of maximum	0 % - 655.35 %	0-10 volt or PWM out

Tab.27 Navigation for installer level

Level	Menu path	
Installer	≔ > Installation Setup > SCB-01 > Submenu (1) > Parameters, counters, signals > Signals	
(1) See the column "Submenu" in the following table for the correct navigation. The signals are grouped in specific functionalities.		

Tab.28 Signals at installer level

Code	Display text	Description	Range	Submenu
AM200	Status contact 1	Status of status contact 1. The meaning is dependent on the current function setting.	0 = Off 1 = On	Status information
AM201	Status contact 1	Status of status contact 1. The meaning is dependant on the current function setting.	0 = Off 1 = On	Status information

8.2.3 Status and sub-status

Tab.29 AM012 - Status

Code	Display text	Explanation	
0	Standby	The appliance is in standby mode.	
1	Heat Demand	A heat demand is active.	
2	Generator start	The appliance starts.	
3	Generator CH	The appliance is active for central heating.	
4	Generator DHW	The appliance is active for domestic hot water.	
5	Generator stop	The appliance has stopped.	
6	Pump Post Run	The pump is active after the appliance stopped.	
7	Cooling Active	The appliance is active for cooling.	
8	Controlled Stop	The appliance does not start because the starting conditions are not met.	
9	Blocking Mode	A blocking mode is active.	
10	Locking Mode	A locking mode is active.	
11	Load test min	Low load test mode for central heating is active.	
12	Load test CH max	Full load test mode for central heating is active.	
13	Load test DHW max	Full load test mode for domestic hot water is active.	
15	Manual Heat Demand	Manual heat demand for central heating is active.	
16	Frost Protection	Frost protection mode is active.	
17	DeAiration	The deaeration program operates.	
18	Control unit Cooling	The fan runs to cool the inside of the appliance.	
19	Reset In Progress	The appliance resets.	
20	Auto Filling	The appliance fills the installation.	
21	Halted	The appliance has stopped. It must be reset manually.	
200	Device Mode	The service tool interface controls the functions of the appliance.	

Tab.30 AM014 - Sub status

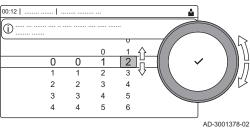
Code	Display text	Explanation
0	Standby	The appliance waits for a process or an action.
1	AntiCycling	The appliance waits to restart, because there were too many consecutive heat demands (anti-short cycle).
2	CloseHydraulicValve	An external hydraulic valve is opened, when this option is connected to the appliance. An external option board must be connected to drive the valve.
3	ClosePump	The appliance starts the pump.
4	WaitingForStartCond.	The appliance waits for the temperature to meet the start conditions.
10	CloseExtGasValve	An external gas valve is opened, when this option is connected to the appliance. An external option board must be connected to drive the valve.

Code	Display text	Explanation	
11	StartToGlueGasValve	The fan runs faster, before the flue gas valve is opened.	
12	CloseFlueGasValve	The flue gas valve opens.	
13	FanToPrePurge	The fan runs faster to pre-purge.	
14	WaitForReleaseSignal	The appliance waits for the release input to close.	
15	BurnerOnCommandToSu	A burner start command is sent to the safety core.	
16	VpsTest	Valve proving test is active.	
17	PreIgnition	Ignition starts before the gas valve opens.	
18	Ignition	Ignition is active.	
19	FlameCheck	The flame detection is active after the ignition.	
20	Interpurge	The fan runs to purge the heat exchanger after a failed ignition.	
30	Normal Int.Setpoint	The appliance operates to reach the desired value.	
31	Limited Int.Setpoint	The appliance operates to reach the reduced internal desired value.	
32	NormalPowerControl	The appliance operates on the desired power level.	
33	GradLevel1PowerCtrl	The modulation is stopped due to a faster heat exchanger temperature change than gradient level 1.	
34	GradLevel2PowerCtrl	The modulation is set to low load due to a faster heat exchanger tempera- ture change than gradient level 2.	
35	GradLevel3PowerCtrl	The appliance is in blocking mode due to a faster heat exchanger tempera- ture change than gradient level 3.	
36	ProtectFlamePwrCtrl	The burner power is increased due to a low ionisation signal.	
37	StabilizationTime	The appliance is in stabilisation time. Temperatures should stabilise and temperature protections are switched off.	
38	ColdStart	The appliance runs at start load to prevent cold start noise.	
39	ChResume	The appliance resumes central heating after a domestic hot water interrup- tion.	
40	SuRemoveBurner	Burner demand is removed from safety core.	
41	FanToPostPurge	The fan runs to purge the heat exchanger after the appliance stopped.	
42	OpenExtFlueGasValve	External gas valve closes.	
43	StopFanToFlueGVRpm	The fan runs slower, before the flue gas valve is closed.	
44	StopFan	The fan has stopped.	
45	LimitedPwrOnTflueGas	The power of the appliance is decreased to lower the flue gas temperature.	
60	PumpPostRunning	The pump is active after the appliance stopped in order to bring the re- maining heat into the system.	
61	OpenPump	The pump has stopped.	
62	OpenHydraulicValve	The external hydraulic valve closes.	
63	SetAntiCycleTimer		
200	Initialising Done	Initialisation is finished.	
201	Initialising Csu	The CSU is initialising.	
202	Init. Identifiers	The identifiers are initialising.	
203	Init.BL.Parameter	The blocking parameters are initialising.	
204	Init. Safety Unit	The safety unit is initialising.	
205	Init. Blocking	The blocking is initialising.	

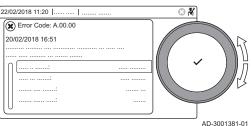
9 Troubleshooting

9.1 Reading out and clearing the error memory









The error memory stores the details of the most recent errors.

- 1. Select the tile [#].
- 2. Press the \checkmark button to confirm the selection.
- 3. Use the rotary knob to select code: $\boldsymbol{0012}$
- 4. Press the \checkmark button to confirm the selection.
 - ⇒ When the installer level is enabled, the status of the tile [∦] changes from Off into On.
- 5. Press the = button.
- 6. Use the rotary knob to select **Error History**.
- 7. Press the ✓ button to confirm the selection.
 ⇒ A list up to 32 most recent errors is displayed with the error code, a short description and the date.
- 8. Use the rotary knob to select the error code you want to investigate.
- 9. Press the \checkmark button to confirm the selection.
- ⇒ The display shows an explanation of the error code and several details of the boiler when the error occurred.
- 10. To clear the error memory, press and hold the \checkmark button.

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