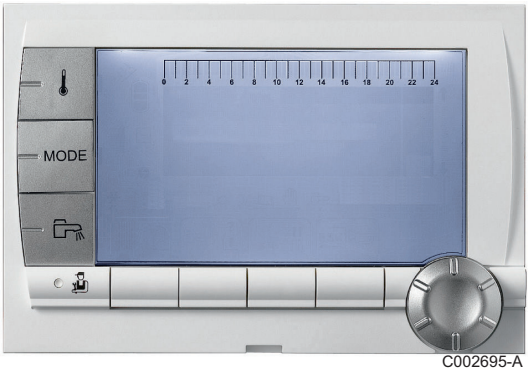
Export

EN

Regulation

Diematic iSystem
For C 330 / C 630 ECO



C002695-A

Installation, User and Service Manual

7600676-001-01

De Dietrich

Contents

1 Introduction

1.1 Symbols used

In these instructions, various danger levels are employed to draw the user's attention to particular information. In so doing, we wish to safeguard the user's safety, obviate hazards and guarantee correct operation of the appliance.

DANGER

Risk of a dangerous situation causing serious physical injury.

WARNING

Risk of a dangerous situation causing slight physical injury.

CAUTION

Risk of material damage.

Signals important information.

Signals a referral to other instructions or other pages in the instructions.

1.2 Abbreviations

- **DHW**: Domestic hot water
- **3WV**: 3-way valve

1.3 General

1.3.1. Manufacturer's liability

Our products are manufactured in compliance with the requirements of the various applicable European Directives. They are therefore delivered with CE marking and all relevant documentation.

In the interest of customers, we are continuously endeavouring to make improvements in product quality. All the specifications stated in this document are therefore subject to change without notice.

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

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

1.3.2. Installer's liability

The installer is responsible for the installation and inital start up of the appliance. The installer must respect the following instructions:

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

1.3.3. User's liability

To guarantee optimum operation of the appliance, the user must respect the following instructions:

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

This appliance is not intended to be used by persons (including children) whose physcial, sensory or mental capacity is impaired or persons with no experience or knowledge, unless they have the benefit, through the intermediary of a person responsible for their safety, of supervision or prior instructions regarding use of the appliance. Care should be taken to ensure that children do not play with the appliance.

1.4 Certifications

This product complies to the requirements to the european directives and following standards:

- 2006/95/EC Low Voltage Directive. Reference Standard: EN60.335.1.
- 2004/108/EC Electromagnetic Compatibility Directive. Generic standards: EN1000-6-3 , EN 61000-6-1.

2 Safety instructions and recommendations

2.1 Recommendations

WARNING

Any intervention on the appliance and heating equipment must be carried out by a qualified engineer.
For a proper operating of the boiler, follow carefully the instructions.

Keep this document close to the place where the boiler is installed.

3 Technical specifications

3.1 Sensor characteristics

Outside sensor												
Temperature in °C	-20	-16	-12	-8	-4	0	4	8	12	16	20	24
Resistance in Ω	2392	2088	1811	1562	1342	1149	984	842	720	616	528	454

Specifications of the flow sensor circuit B + C **Specifications of the DHW sensor** **Specifications of the system sensor**											
Temperature in °C	0	10	20	25	30	40	50	60	70	80	90
Resistance in Ω	32014	19691	12474	10000	8080	5372	3661	2535	1794	1290	941

4 Installation

4.1 Package list

4.1.1. Standard delivery

The delivery includes:

- The control panel with the Diematic iSystem module
- Outside sensor
- Installation, User and Service Manual

4.1.2. Accessories

Various options are available depending on the configuration of the installation:

Control system options	
Description	**package**
RX12 cable	AD134
TELCOM 2 voice remote monitoring module	AD152
Flow sensor	AD199
DHW sensor	AD212
Optional PCB for 3-way valve	AD249
Hot water storage tank sensor	AD250
Outside radio-controlled temperature sensor	AD251
Boiler radio module	AD252
Radio remote control	AD253
Interactive remote control	AD254
Room sensor	FM52
Room sensor	AD244
RX11 cable	AD124
Connecting cable (40 m)	DB119
Dip sensor	AD218

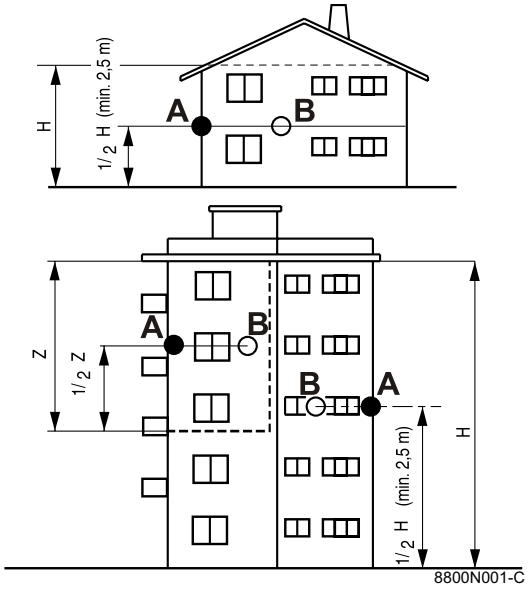
4.2 Installing the outside sensor

4.2.1. Choice of the location

It is important to select a place that allows the sensor to measure the outside conditions correctly and effectively.

Advised positions:

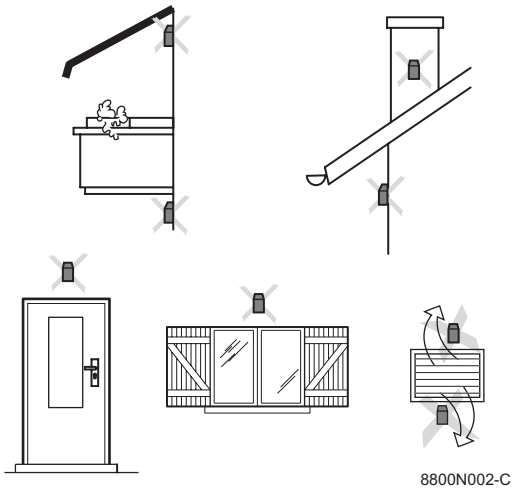
- on one face of the area to be heated, on the north if possible
- half way up the wall in the room to be heated
- under the influence of meteorological variations
- protected from direct sunlight
- easy to access



A	Recommended position
B	Possible position
H	Inhabited height controlled by the sensor
Z	Inhabited area controlled by the sensor

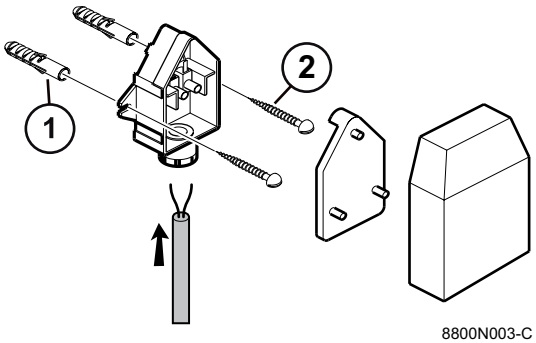
Positions to be avoided:

- masked by a building element (balcony, roof, etc.)
- close to a disruptive heat source (sun, chimney, ventilation grid, etc.)



4.2.2. Connecting the outside sensor

Mount the sensor using the screws and dowels provided.



① Inserts

② Ø4 wood screw

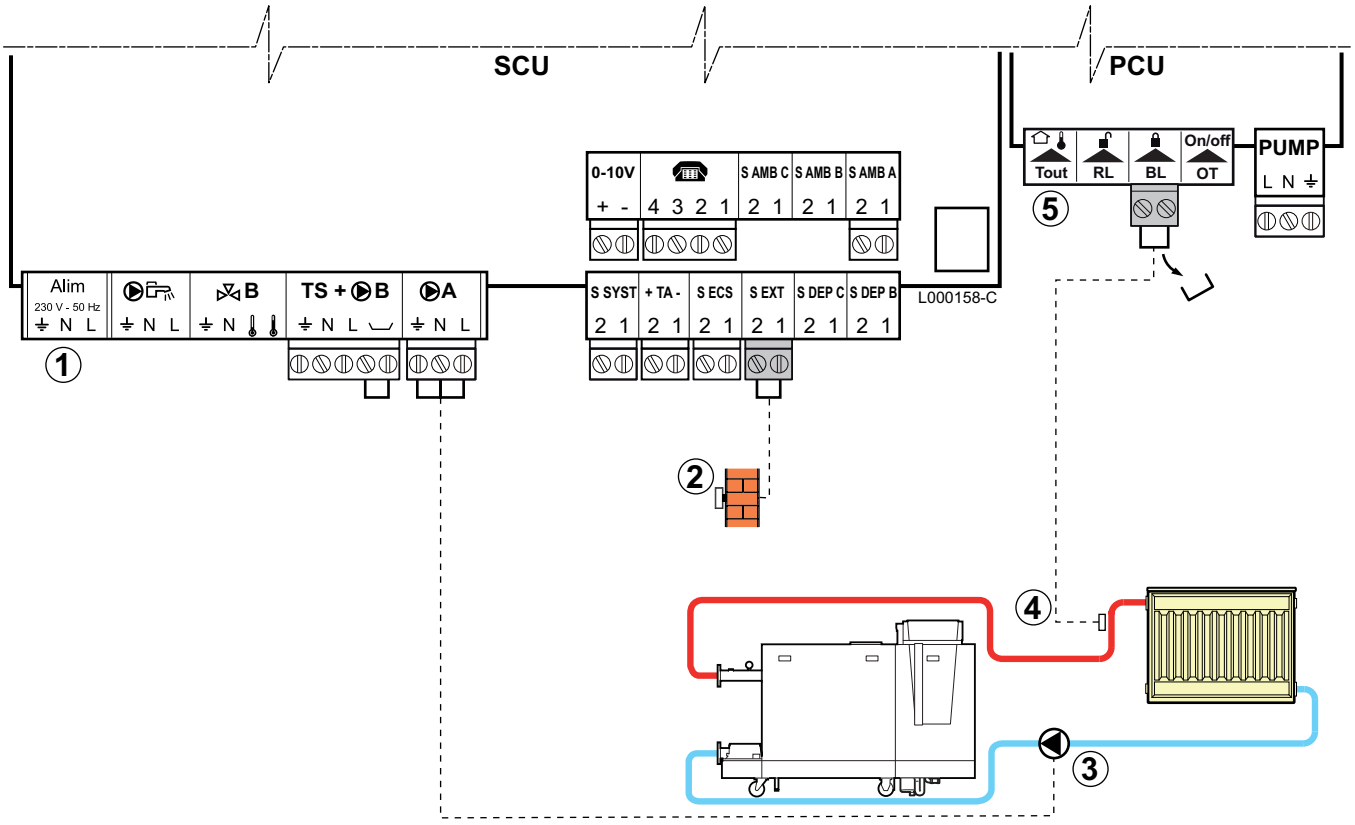
For the connection of the outside temperature sensor, refer to the chapter "Electrical Connections".

4.3 Fitting and connecting the control panel

Refer to the boiler's installation and service manual.

4.4 Electrical connections

4.4.1. Connecting a direct heating circuit



① Do not connect anything to the terminal block.

② Connect the outside temperature sensor.

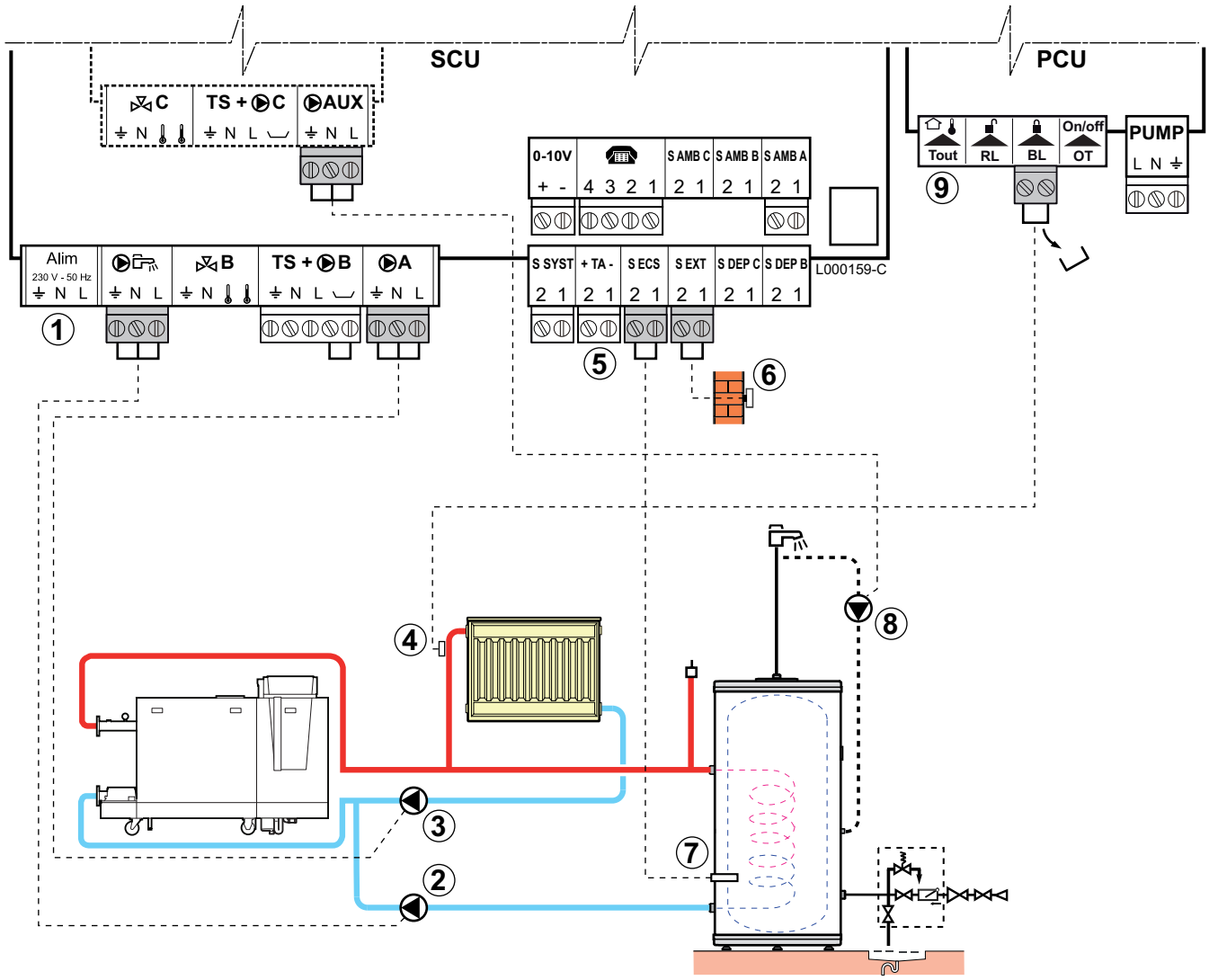
③ Heating connection pump.

④ Connect a safety thermostat if the heating circuit is for underfloor heating.

- Remove the bridge.
- Connect the wires from the safety thermostat to the connector.

⑤ Do not connect anything to the terminal block.

4.4.2. Connecting a direct heating circuit and a domestic hot water tank



① Do not connect anything to the terminal block.

② Domestic load pump connection

③ Connect the heating pump

④ Connect a safety thermostat if the heating circuit is for underfloor heating.

- Remove the bridge.
- Connect the wires from the safety thermostat to the connector.

⑤ Connect the DHW tank anode.

CAUTION

- If the tank is fitted with a Titan Active System® impressed current anode, connect the anode to the inlet (+ TA on the anode, - on the tank).
- If the tank is not fitted with an impressed current anode, put the simulation connector in place (delivered with the DHW sensor - package AD212).

⑥ Connect the outside temperature sensor.

⑦ Connect the DHW sensor (Package AD212).

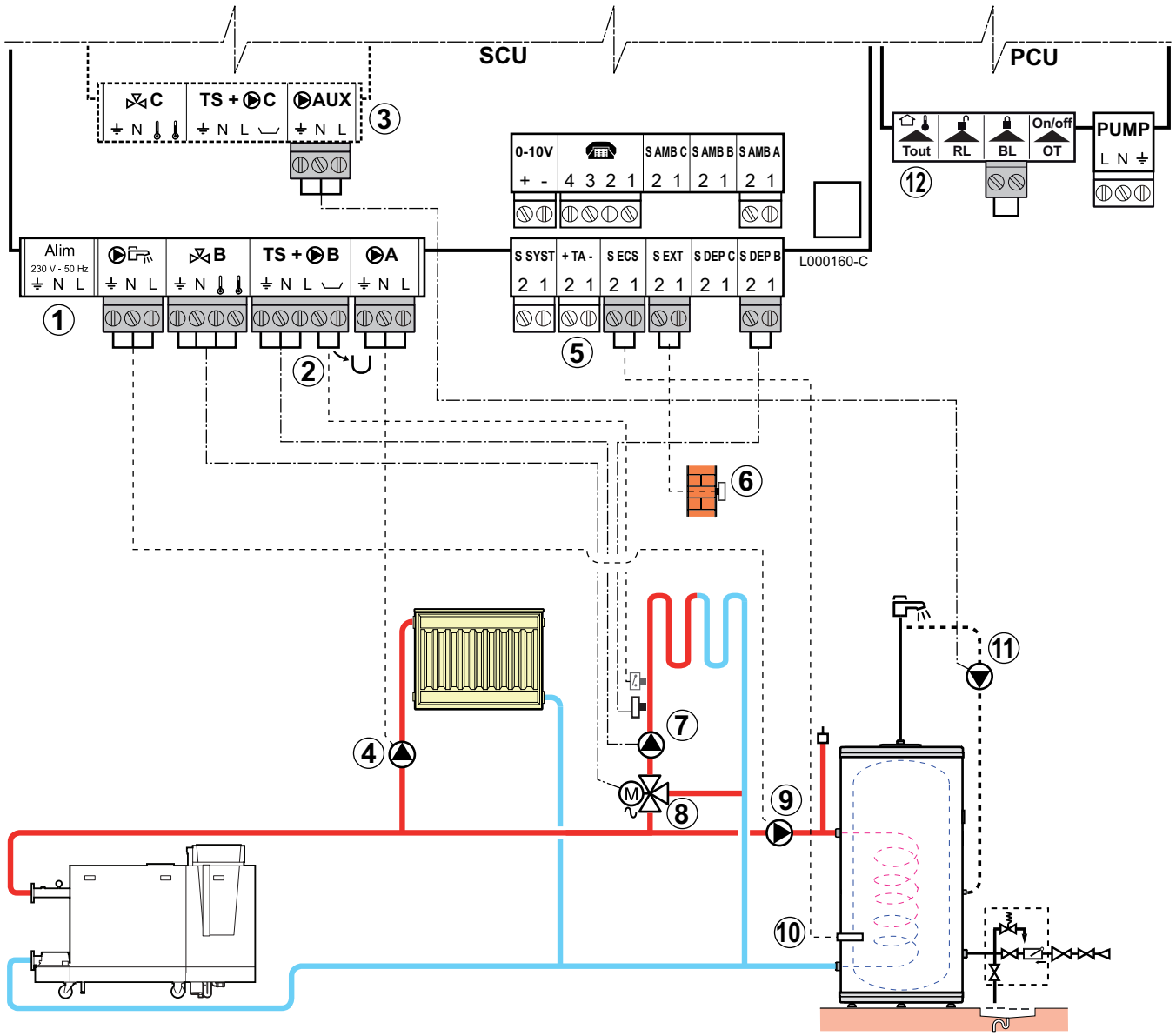
⑧ Connect the domestic hot water looping pump (Optional).

⑨ Do not connect anything to the terminal block.

If a low-loss header is used, connect the primary pump before the header to the PUMP connector on the PCU.

Settings to be made for this type of installation			
Parameters	**Access**	**Settings to be made**	**See**
INSTALLATION	Installer level Menu **#SYSTEM**	**EXTENDED**	"Displaying the parameters in extended mode", page 33
If a domestic hot water looping pump is connected to **AUX** on the terminal block: **O.PUMP AUX**(1)	Installer level Menu **#SYSTEM**	**DHW LOOP**	"Setting the parameters specific to the installation", page 33
If safety thermostat is connected to **BL** on the connection terminal block: **IN.BL**	Installer level Menu **#PRIMARY** **INSTAL.P**	**TOTAL STOP**	"Professional settings", page 52
(1) The parameter is only displayed if **INSTALLATION** is set to **EXTENDED**			

4.4.3. Connecting two circuits and a domestic hot water tank



① Do not connect anything to the terminal block.

② Connect a safety thermostat if the heating circuit is for underfloor heating.

- Remove the bridge.
- Connect the wires from the safety thermostat to the connector.

③ Connecting an additional circuit to the AD249 option.

④ Connect the heating pump (circuit **A**).

If underfloor heating is being used, put a safety thermostat in place after the heating pump. The safety thermostat will shut down the heating pump in the event of overheating.

⑤ Connect the DHW tank anode.

CAUTION

- If the tank is fitted with a Titan Active System® impressed current anode, connect the anode to the inlet (+ TA on the anode, - on the tank).
- If the tank is not fitted with an impressed current anode, put the simulation connector in place (delivered with the DHW sensor - package AD212).

⑥ Connect the outside temperature sensor.

⑦ Connect the heating pump (circuit **B**).

⑧ Connect the 3-way valve (circuit **B**).

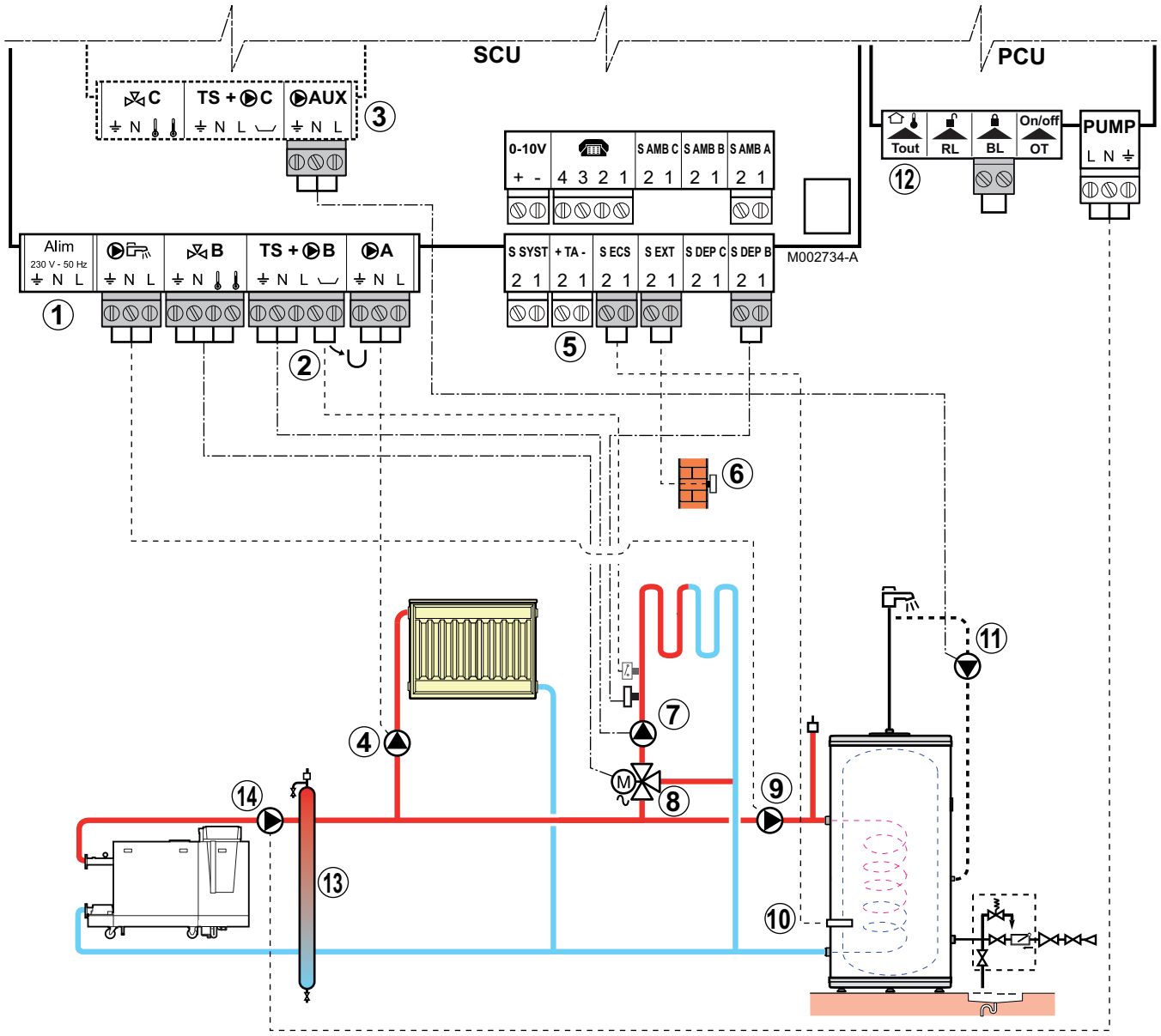
⑨ Domestic load pump connection.

⑩ Connect the DHW sensor (Package AD212).

⑪ Connect the domestic hot water looping pump to the **AUX** outlet on the AD249 option.

⑫ Do not connect anything to the terminal block.

4.4.4. Connecting two circuits and a domestic hot water tank after the mixing tank



① Do not connect anything to the terminal block.

② Connect a safety thermostat if the heating circuit is for underfloor heating.

- Remove the bridge.
- Connect the wires from the safety thermostat to the connector.

③ Connecting an additional circuit to the AD249 option.

④ Connect the heating pump (circuit **A**).

If underfloor heating is being used, put a safety thermostat in place after the heating pump. The safety thermostat will shut down the heating pump in the event of overheating.

⑤ Connect the DHW tank anode.

CAUTION

- If the tank is fitted with a Titan Active System® impressed current anode, connect the anode to the inlet (+ TA on the anode, - on the tank).
- If the tank is not fitted with an impressed current anode, put the simulation connector in place (delivered with the DHW sensor - package AD212).

⑥ Connect the outside temperature sensor.

⑦ Connect the heating pump (circuit **B**).

⑧ Connect the 3-way valve (circuit **B**).

⑨ Domestic load pump connection.

⑩ Connect the DHW sensor (Package AD212).

⑪ Connect the domestic hot water looping pump to the **AUX** outlet on the AD249 option.

⑫ Do not connect anything to the terminal block.

⑬ Low loss header

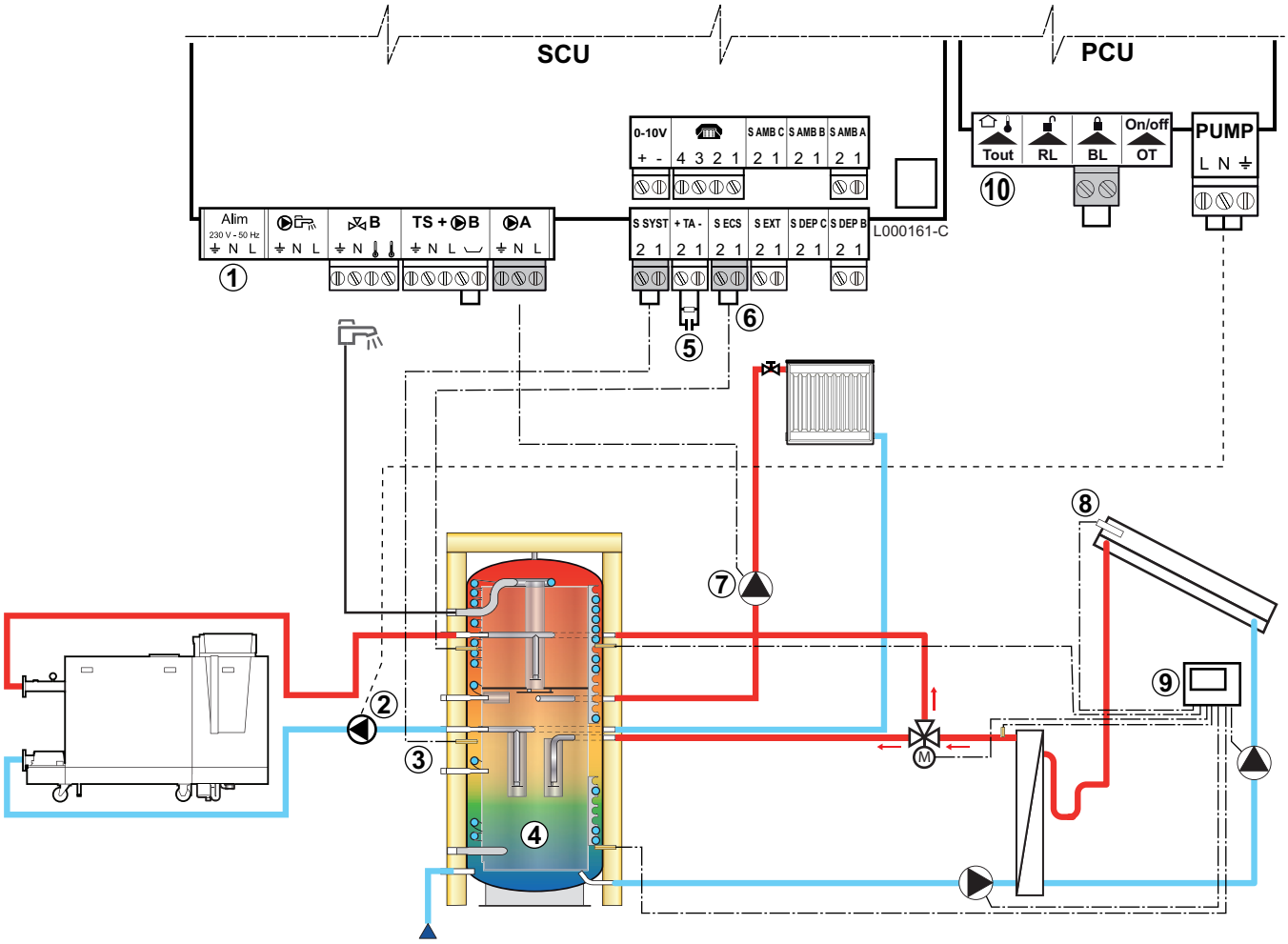
⑭ Boiler pump

4.4.5. Hot water storage tank connection

■ QUADRO DU storage tank

In this installation example, the storage tank (type QUADRO DU) incorporates a domestic hot water zone. The boiler starts up systematically to maintain the domestic hot water zone in the storage tank or to maintain the independent tank at temperature.

If the storage tank does not have a DHW zone, use an independent domestic hot water tank.



① Do not connect anything to the terminal block.

② Connect the load pump from the buffer tank.

③ Connect the sensor from the storage tank (Package AD250).

④ Buffer tank.

⑤ Connect the DHW tank anode.

If the tank is not fitted with an impressed current anode, put the simulation connector in place (delivered with the DHW sensor - package AD212).

⑥ Connect the DHW sensor (Package AD212).

⑦ Connect the heating pump (Circuit A).

⑧ Solar sensor probe.

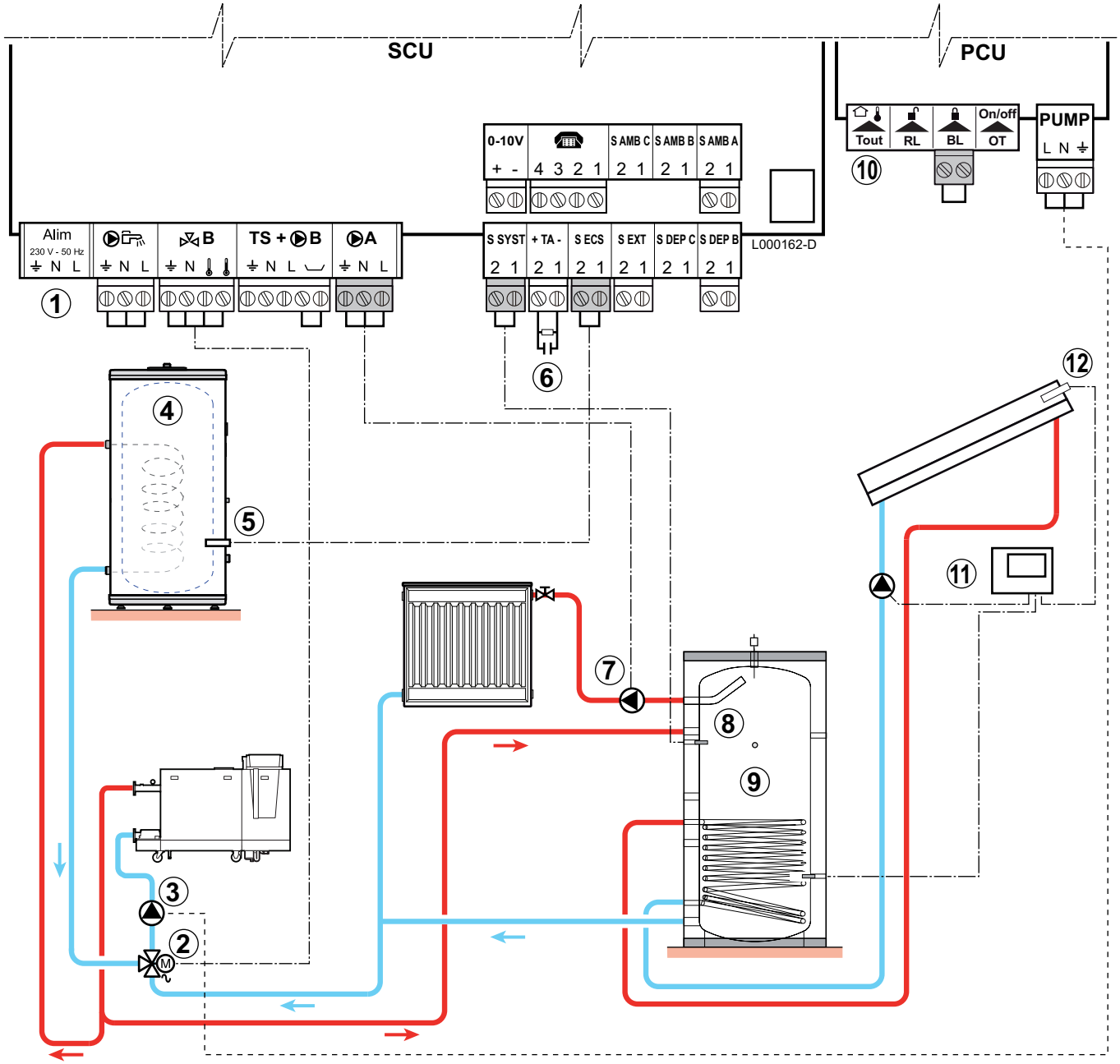
⑨ Connect the solar station to the solar collectors.

⑩ Do not connect anything to the terminal block.

Settings to be made for this type of installation			
Parameters	**Access**	**Settings to be made**	**See**
INSTALLATION	Installer level Menu **#SYSTEM**	**EXTENDED**	☞ "Displaying the parameters in extended mode", page 33
I.SYST(1)	Installer level Menu **#SYSTEM**	**STORAGE TANK**	☞ "Setting the parameters specific to the installation", page 33
(1) The parameter is only displayed if **INSTALLATION** is set to **EXTENDED**			

The DHW part is maintained at the DHW set point by the boiler.
The heating zone is maintained at the set temperature calculated according to the outside temperature. The zone is reheated when the heating buffer temperature sensor ③ falls -6°C below the calculated set temperature.
Reheating in the heating zone stops when the heating buffer temperature rises above the calculated set temperature.

■ PS storage tank and DHW tank connected to the boiler



① Do not connect anything to the terminal block.

② Reversal valve

③ Buffer tank load pump.

④ Connect a domestic hot water tank if the storage tank ⑨ is only used for heating

⑤ Connect the DHW sensor (Package AD212).

⑥ Connect the DHW tank anode.

If the tank is not fitted with an impressed current anode, put the simulation connector in place (delivered with the DHW sensor - package AD212).

⑦ Connect the heating pump (Circuit **A**).

⑧ Solar sensor probe.

⑨ Buffer tank.

⑩ Do not connect anything to the terminal block.

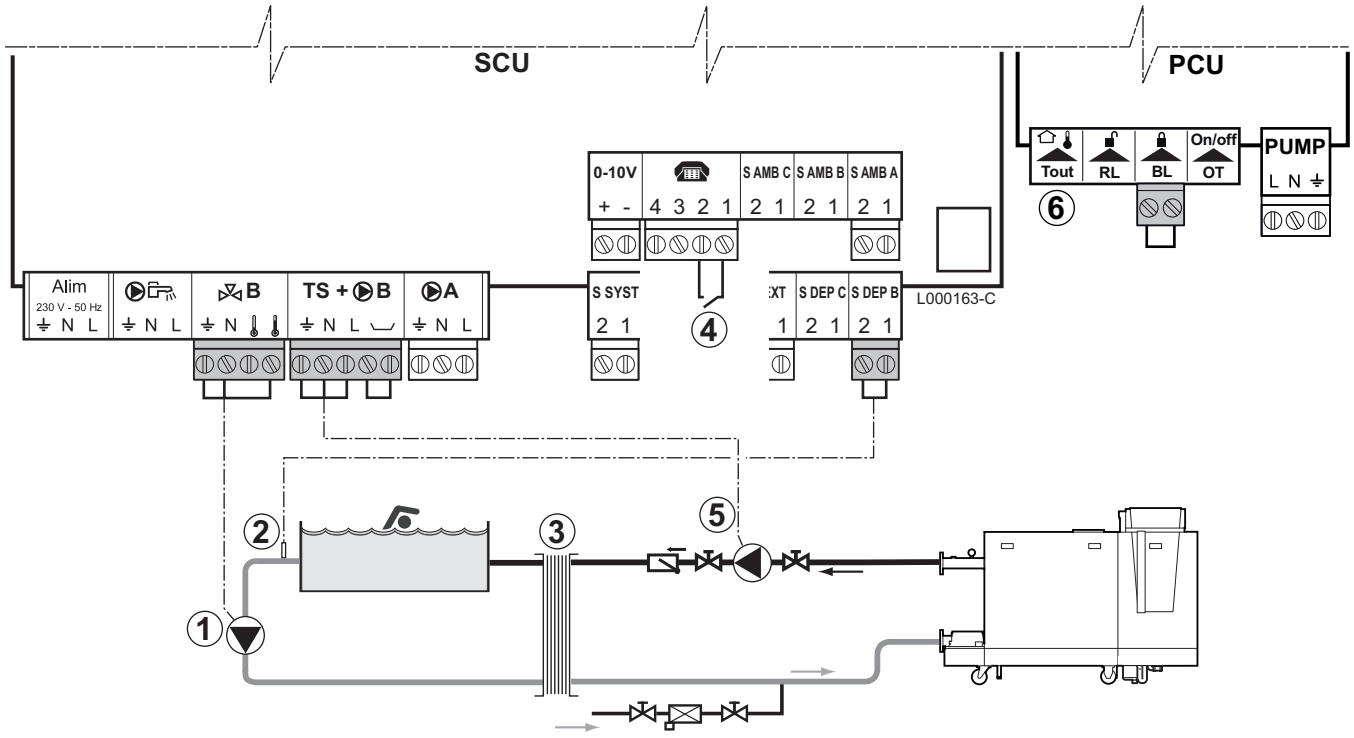
⑪ Connect the solar station to the solar collectors.

⑫ Solar sensor probe

Settings to be made for this type of installation			
Parameters	**Access**	**Settings to be made**	**See**
INSTALLATION	Installer level Menu **#SYSTEM**	**EXTENDED**	"Displaying the parameters in extended mode", page 33
I.SYST(1)	Installer level Menu **#SYSTEM**	**STORAGE TANK**	"Setting the parameters specific to the installation", page 33
(1) The parameter is only displayed if **INSTALLATION** parameter is set to **EXTENDED**			

The DHW part is maintained at the DHW set point by the boiler.
The heating zone is maintained at the set temperature calculated according to the outside temperature. The zone is reheated when the heating buffer temperature sensor falls -6°C below the calculated set temperature. Reheating in the heating zone stops when the heating buffer temperature rises above the calculated set temperature.

4.4.6. Pool connection



① Connect the secondary swimming pool pump.

② Connect the swimming pool sensor.

③ Plate heat exchanger.

④ Pool heating cut-off control

When the parameter **I.TEL:** is on **0/1 B**, the swimming pool is no longer heated when the contact is open (factory setting), only the antifreeze continues to be active.
The contact direction can still be adjusted by the parameter **CT.TEL**.

⑤ Connect the primary swimming pool pump.

⑥ Do not connect anything to the terminal block.

Settings to be made for this type of installation			
Parameters	**Access**	**Settings to be made**	**See**
INSTALLATION	Installer level Menu **#SYSTEM**	**EXTENDED**	☞ "Displaying the parameters in extended mode", page 33
CIRC. B:	Installer level Menu **#SYSTEM**	**SWIM.P.**	☞ "Setting the parameters specific to the installation", page 33
If **I.TEL:** is used **I.TEL:**	Installer level Menu **#SYSTEM**	**0/1 B**	
MAX. CIRC. B	Installer level Menu **#SECONDARY LIMITS**	Set the value of **MAX.CIRC.B** to the temperature corresponding to the needs of the exchanger	☞ "Professional settings", page 52

Controlling the pool circuit

The control system can be used to manage a swimming pool circuit in both cases:

Case 1: The control system regulates the primary circuit (boiler/exchanger) and the secondary circuit (exchanger/pool).

- Connect the primary circuit pump (boiler/exchanger) to the **B** outlet on the connection terminal block. The temperature **MAX. CIRC. B** is then guaranteed during comfort periods on programme **B** in summer and winter alike.
- Connect the swimming pool sensor (package AD212) to the **S DEP B** inlet on the connection terminal block.
- Set the set point of the pool sensor using key in the range 5 - 39°C.

Case 2: The pool has already a regulation system that is to be kept. The control system only regulates the primary circuit (boiler/exchanger).

- Connect the primary circuit pump (boiler/exchanger) to the **B** outlet on the connection terminal block.
  The temperature **MAX. CIRC. B** is then guaranteed during comfort periods on programme **B** in summer and winter alike.

The swimming pool can also be connected to circuit **C** by adding the AD249 option:

- Make the connection to the terminal blocks marked **C**.
- Set the parameters for circuit **C**.

■ Hourly programming of the secondary circuit pump

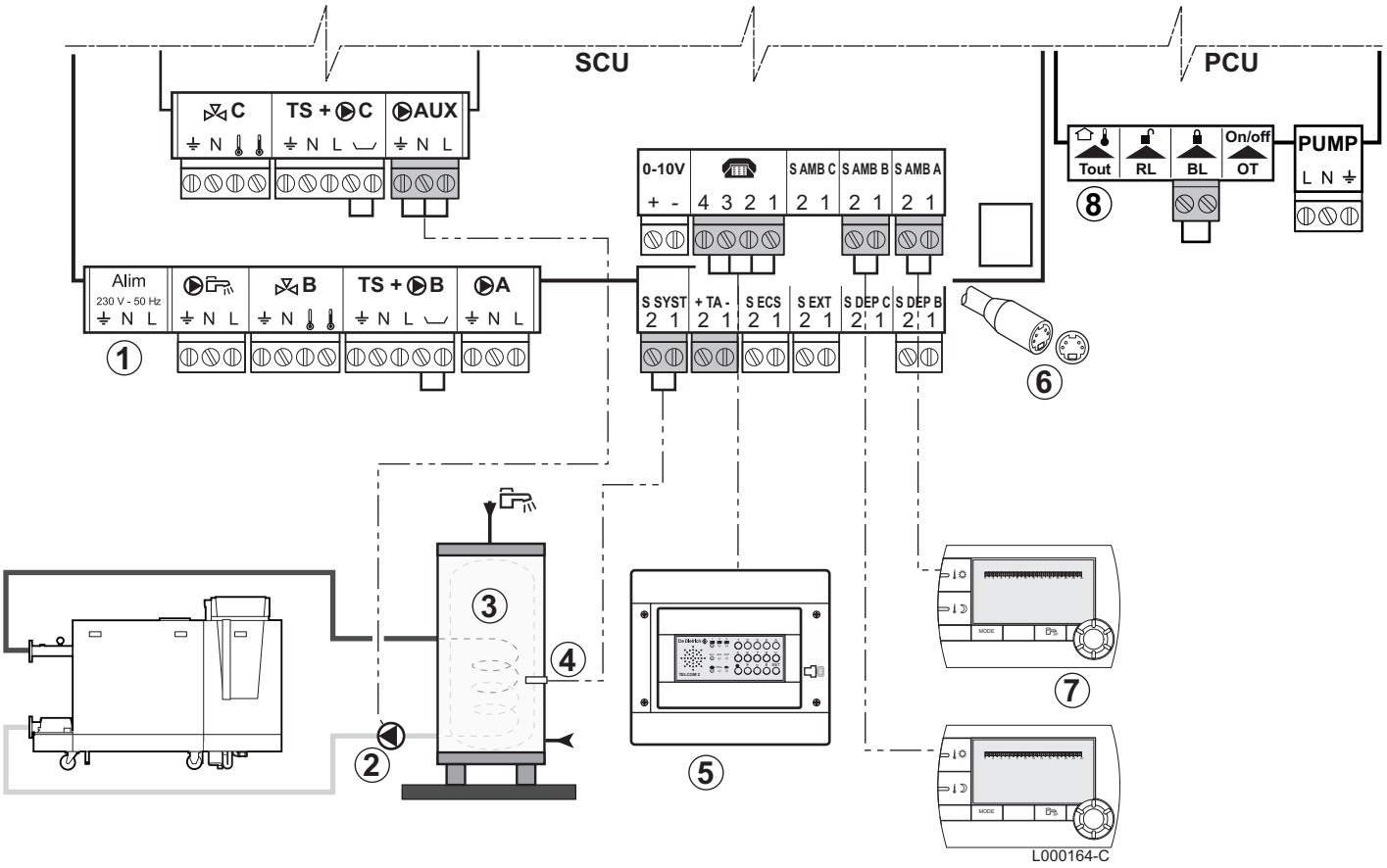
The secondary pump operates during programme **B** comfort periods in summer and winter alike.

■ Stopping

To prepare your pool for winter, consult your pool specialist.

4.4.7. Connecting the options

For example: TELCOM remote vocal monitoring module, remote controls for circuits **A** and **B**, second DHW tank

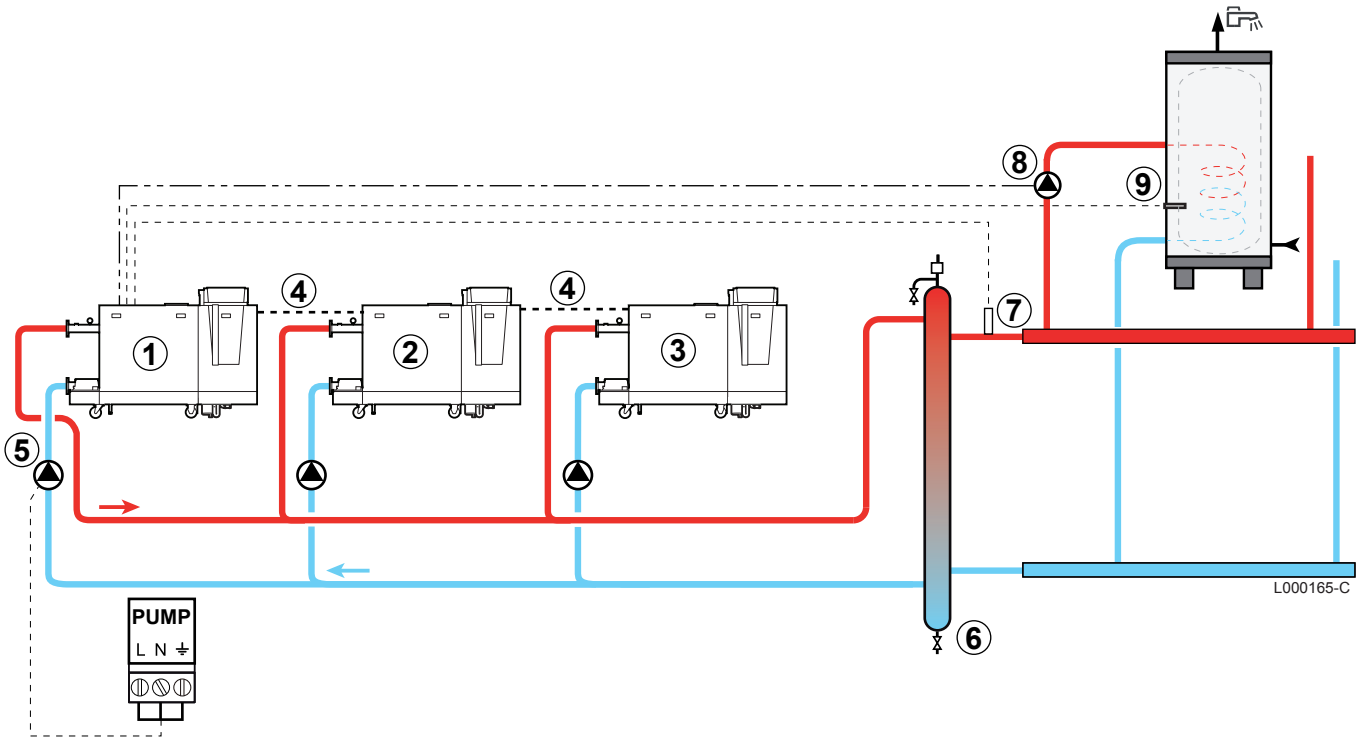


①	Do not connect anything to the terminal block.
②	Connect the load pump of the second tank
③	Second domestic hot water tank
④	Connect the DHW sensor of the second tank
⑤	Connect the TELCOM remote vocal monitoring module (depending on its availability in your country).
⑥	Connecting the BUS cascade, VM
⑦	Connect the remote control (Package AD254/FM52).
⑧	Do not connect anything to the terminal block.

Settings to be made to connect a second tank			
Parameters	**Access**	**Settings to be made**	**See**
INSTALLATION	Installer level Menu **#SYSTEM**	**EXTENDED**	"Displaying the parameters in extended mode", page 33
If second tank connected: **S.AUX:**(1)	Installer level Menu **#SYSTEM**	**DHW**	"Setting the parameters specific to the installation", page 33
(1) The parameter is only displayed if **INSTALLATION** is set to **EXTENDED**			

4.4.8. Connection in cascade

■ DHW tank after the mixing tank



①	Master boiler (DIEMATIC iSystem)
②	Secondary boiler (DIEMATIC iSystem or IniControl)
③	Secondary boiler (DIEMATIC iSystem or IniControl)
④	Cable **BUS**
⑤	Boiler pump
⑥	Low loss header
⑦	Cascade outlet sensor Connect the sensor to the terminal block **S SYST** on the master boiler.
⑧	D.H.W. load pump
⑨	Connect the DHW sensor (Package AD212)

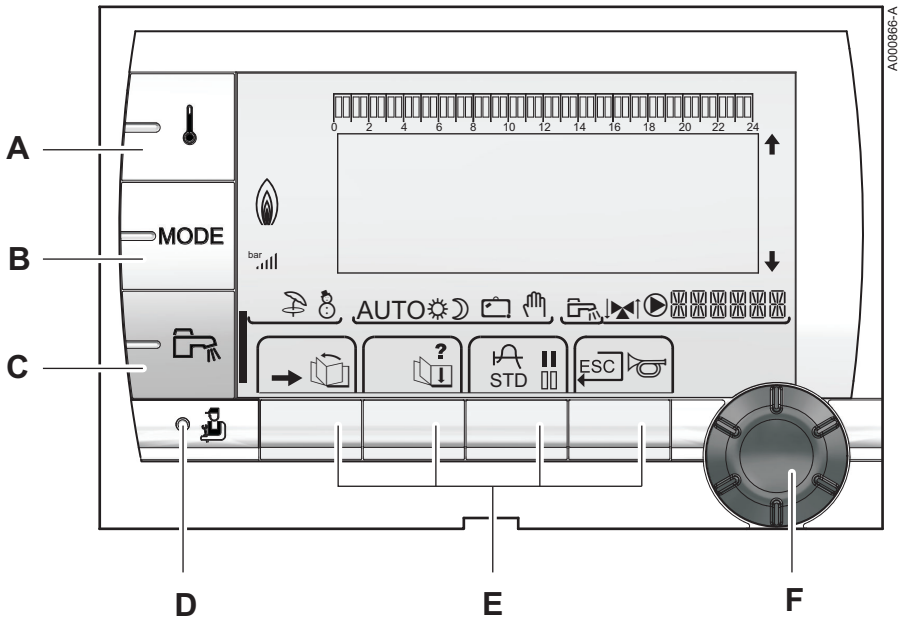
DIEMATIC iSystem - Settings to be made for this type of installation: Master boiler			
Parameters	**Access**	**Settings to be made**	**See**
INSTALLATION	Installer level Menu **#SYSTEM**	**EXTENDED**	"Displaying the parameters in extended mode", page 33
P.DHW(1)	Installer level Menu **#SYSTEM**	**PUMP**	"Setting the parameters specific to the installation", page 33
CASCADE:(1)	Installer level Menu **#NETWORK**	**ON**	"Configuring the network", page 60
MASTER CONTROLLER(1)	Installer level Menu **#SYSTEM**	**ON**	
SYSTEM NETWORK(1)	Installer level Menu **#SYSTEM**	**ADD SLAVE**	
(1) The parameter is only displayed if **INSTALLATION** is set to **EXTENDED**			

DIEMATIC iSystem - Settings to be made for this type of installation: Follower boilers			
Parameters	**Access**	**Settings to be made**	**See**
INSTALLATION	Installer level Menu **#SYSTEM**	**EXTENDED**	"Displaying the parameters in extended mode", page 33
CASCADE:(1)	Installer level Menu **#NETWORK**	**ON**	"Configuring the network", page 60
MASTER CONTROLLER(1)	Installer level Menu **#SYSTEM**	**OFF**	
SLAVE NUMBER(1)	Installer level Menu **#SYSTEM**	2, 3, ...	
(1) The parameter is only displayed if **INSTALLATION** is set to **EXTENDED**			

5 Commissioning

5.1 Control panel

5.1.1. Description of the keys

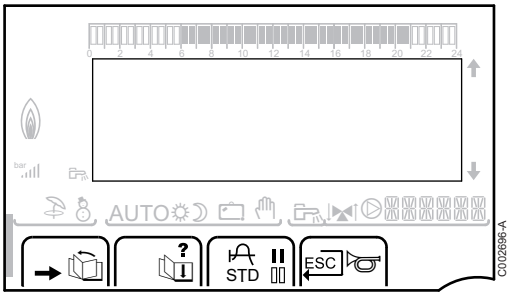


A	Temperature setting key (heating, DHW, swimming pool)
B	Operating mode selection key
C	DHW override key
D	Key to access the parameters reserved for the installer
E	Keys on which the function varies as and when selections are made
F	Rotary setting button:

- Turn the rotary button to scroll through the menus or modify a value
- Press the rotary button to access the menu selected or confirm a value modification

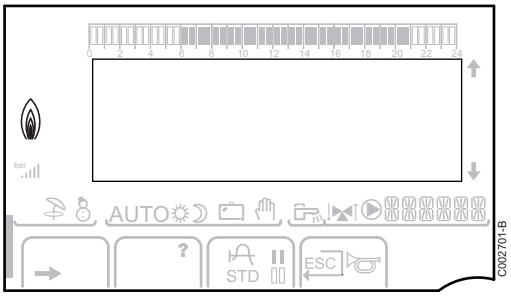
5.1.2. Description of the display

■ Key functions



→	Access to the various menus
	Used to scroll through the menus
	Used to scroll through the parameters
?	The symbol is displayed when help is available
	Used to display the curve of the parameter selected
STD	Reset of the time programmes
	Selection of comfort mode or selection of the days to be programmed
	Selection of reduced mode or deselection of the days to be programmed
	Back to the previous level
ESC	Back to the previous level without saving the modifications made
	Manual reset

■ Flame output level



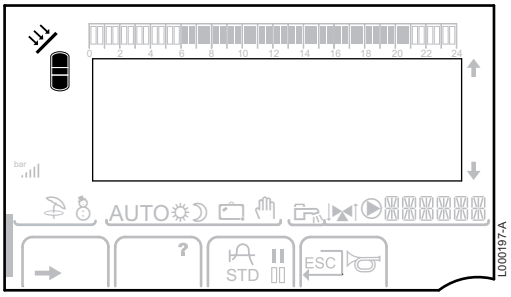
The whole symbol flashes: The burner starts up but the flame is not yet present

Part of the symbol flashes: Output is increasing

Steady symbol: The required output has been reached

Part of the symbol flashes: Output is dropping

Solar (If connected)



The solar load pump is running

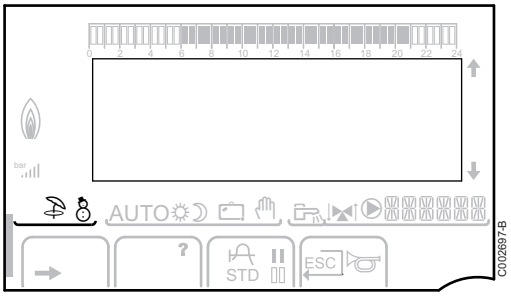
The top part of the tank is reheated to the tank set point

The entire tank is reheated to the tank set point

The entire tank is reheated to the solar tank set point

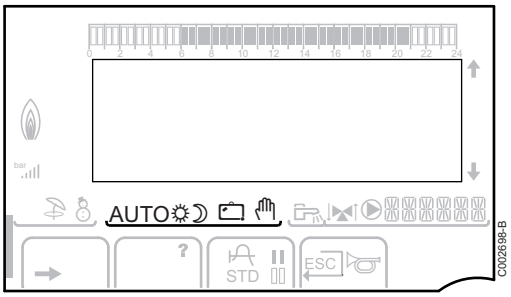
The tank is not loaded - Presence of the solar control system

Operating modes



Summer mode: The heating is off. Domestic hot water continues to be produced

WINTER mode: Heating and domestic hot water working



AUTO Operation in automatic mode according to the timer programme

Comfort mode: The symbol is displayed when a DAY override (comfort) is activated

- Flashing symbol: Temporary override
- Steady symbol: Permanent override

Reduced mode: The symbol is displayed when a NIGHT override (reduced) is activated

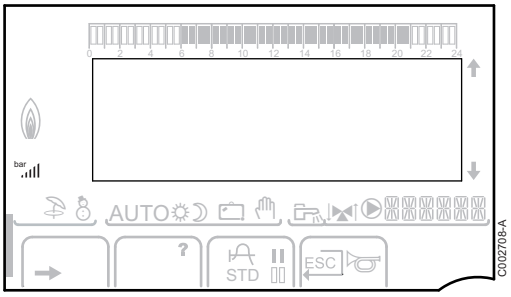
- Flashing symbol: Temporary override
- Steady symbol: Permanent override

Holiday mode: The symbol is displayed when a HOLIDAY override (antifreeze) is activated

- Flashing symbol: Holiday mode programmed
- Steady symbol: Holiday mode active

Manual mode

System pressure



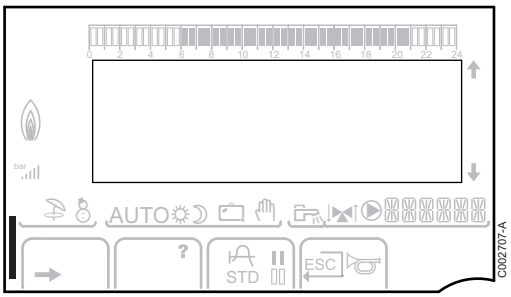
bar Pressure indicator: The symbol is displayed when a water pressure sensor is connected.

- Flashing symbol: The water pressure is insufficient.
- Steady symbol: The water pressure is sufficient.

Water pressure level

- : 0,9 to 1,1 bar
- : 1,2 to 1,5 bar
- : 1,6 to 1,9 bar
- : 2,0 to 2,3 bar
- : > 2,4 bar

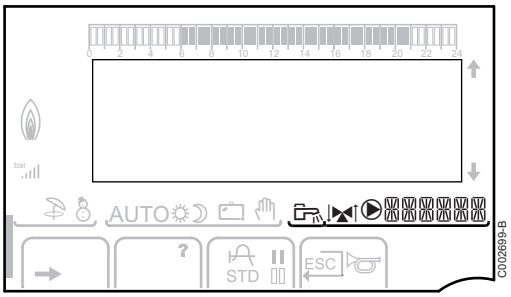
Domestic Hot Water override



A bar is displayed when a DHW override is activated:

- Flashing bar: Temporary override
- Steady bar: Permanent override

Other information



The symbol is displayed when domestic hot water production is running.

Valve indicator: The symbol is displayed when a 3-way valve is connected.

- : 3-way valve opens
- : 3-way valve closes

The symbol is displayed when the pump is operating.

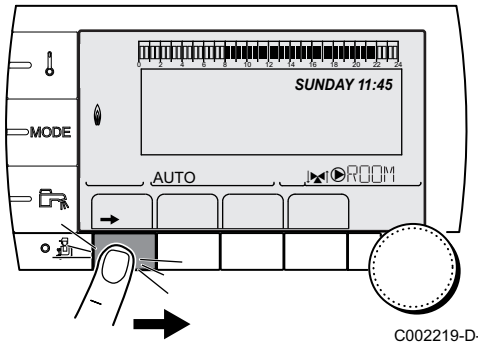
Name of the circuit for which the parameters are displayed.

5.1.3. Access to the various browsing levels

■ User level

The information and settings in the User level can be accessed by everyone.

1. Press the → key.

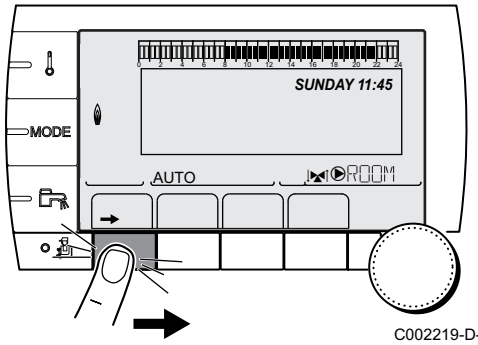


C002219-D-04

■ Installer level

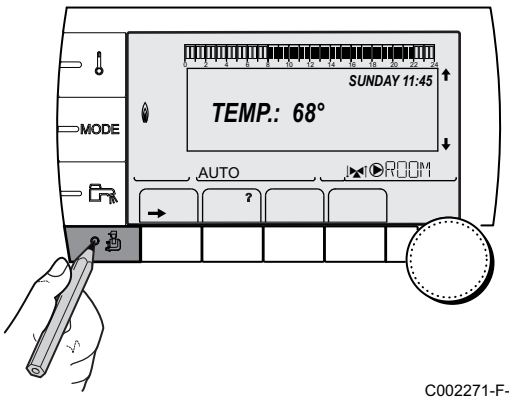
The information and settings in the Installer level can be accessed by experienced people.

1. Press the → key.



C002219-D-04

2. Press the key.

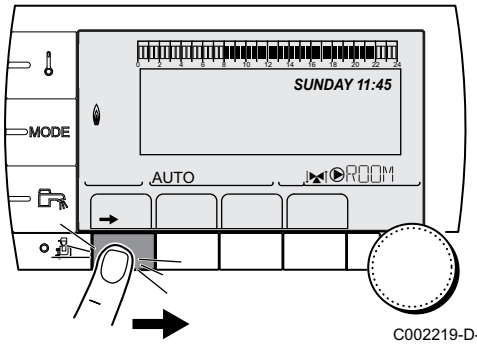


C002271-F-04

It is also possible to access the installer level by pressing only the key for around 5 seconds.

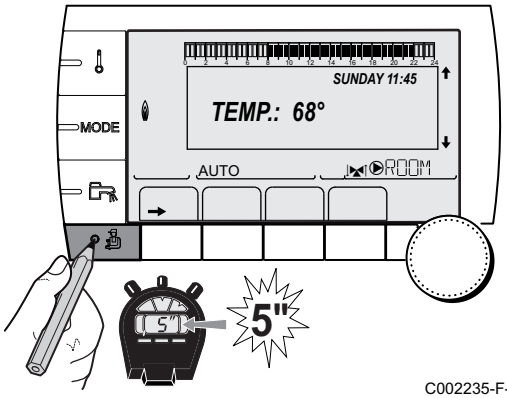
■ After Sales level

The After Sales Service information and settings can be accessed by the professional providing the After Sales Service.



C002219-D-04

1. Press the → key.

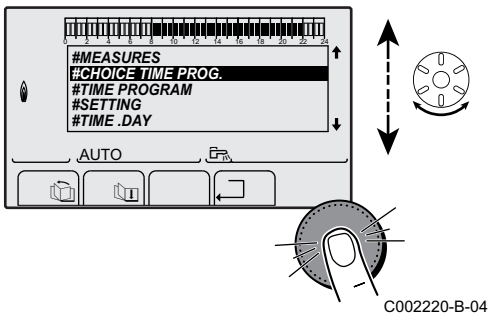


C002235-F-04

2. Press key for around 5 seconds.

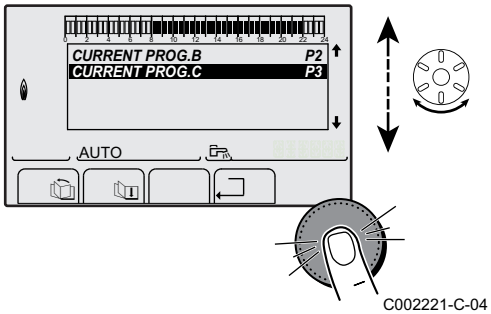
It is also possible to access the After Sales level by pressing only the key for around 10 seconds.

5.1.4. Browsing in the menus



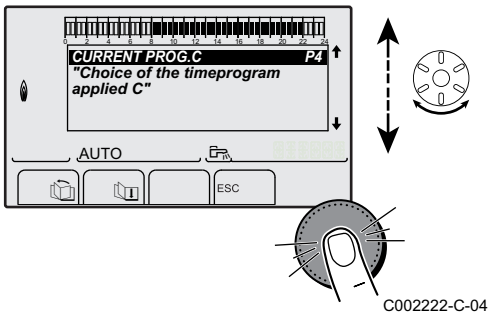
C002220-B-04

1. To select the desired menu, turn the rotary button.
2. To access the menu, press the rotary button.
   To go back to the previous display, press the key ⮌.



C002221-C-04

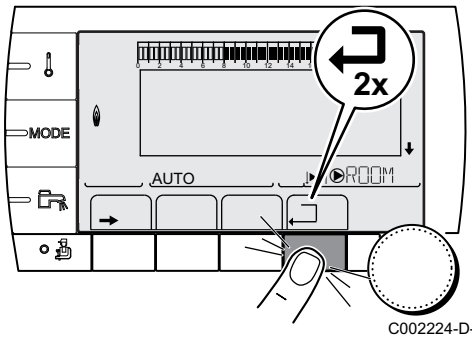
3. To select the desired parameter, turn the rotary button.
4. To modify the parameter, press the rotary button.
   To go back to the previous display, press the key ⮌.



C002222-C-04

5. To modify the parameter, turn the rotary button.
6. To confirm, press the rotary button.

To cancel, press key ESC.

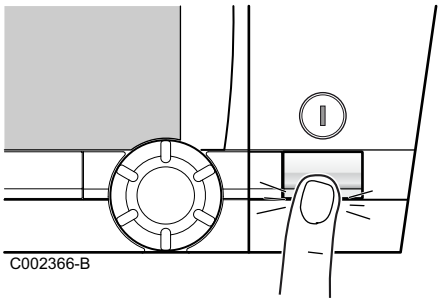


C002224-D-04

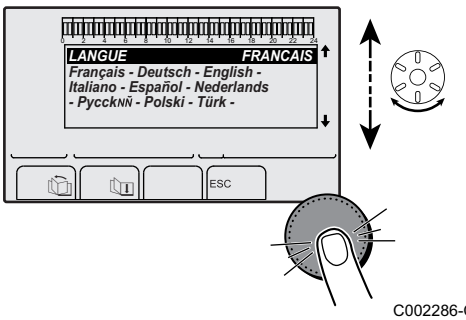
7. To go back to the main display, press key ⮐ 2 times.

It is possible to use the and keys instead of the rotary button.

5.2 Putting the appliance into operation


C002366-B

1. Open the main gas supply.
2. Open the gas valve on the boiler.
3. Turn on the boiler using the on/off switch.

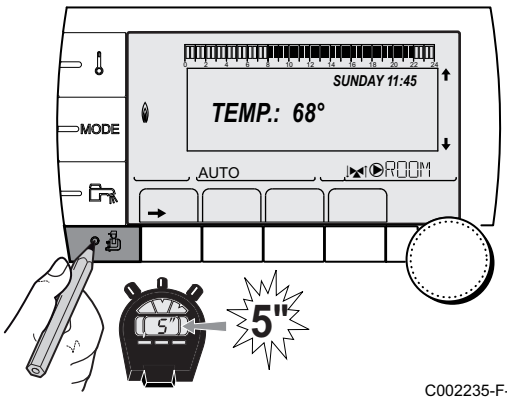


C002286-C

4. The first time the boiler is powered up, the **LANGUAGE** menu is displayed. Select the desired language by turning the rotary button.
5. To confirm, press the rotary button.

5.3 Checks and adjustments after commissioning

5.3.1. Displaying the parameters in extended mode



C002235-F-04

The display mode on the control panel is set as standard in such a way as only to show the conventional parameters. It is possible to switch to extended mode by proceeding as follows:

1. Access the installer level: Press key for around 5 seconds.
2. Select the menu **#SYSTEM**.

- Turn the rotary button to scroll through the menus or modify a value.
- Press the rotary button to access the menu selected or confirm a value modification.

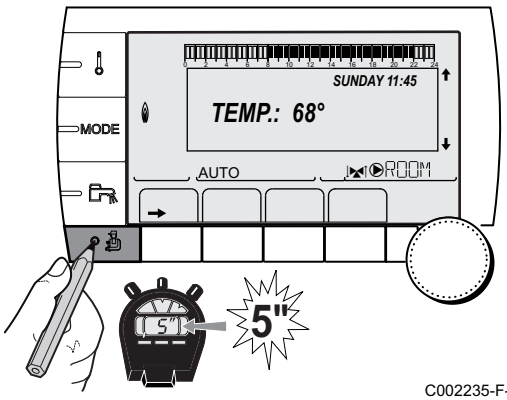
For a detailed explanation of menu browsing, refer to the chapter: "Browsing in the menus", page 31

3. Set parameter **INSTALLATION** to **EXTENDED**.

Installer level - Menu #SYSTEM				
Parameter	**Adjustment range**	**Description**	**Factory setting**	**Customer setting**
INSTALLATION	**CLASSIC**	Displays the parameters of a conventional installation	**CLASSIC**	
	EXTENDED	Displays all parameters		

Regardless of what is done to the keys, the regulator switches back to **CLASSIC** mode after 30 minutes.

5.3.2. Setting the parameters specific to the installation



C002235-F-04

1. Access the installer level: Press key for around 5 seconds.
2. Select the menu **#SYSTEM**.

- Turn the rotary button to scroll through the menus or modify a value.
- Press the rotary button to access the menu selected or confirm a value modification.

For a detailed explanation of menu browsing, refer to the chapter: "Browsing in the menus", page 31

3. Set the following parameters according to the connections made to the PCBs:

Installer level - #SYSTEM menu				
Parameter	**Adjustment range**	**Description**	**Factory setting**	**Customer setting**
CIRC. A: (1)(2)	**DIRECT**	Use as a direct heating circuit	**DIRECT**	
	PROGRAM.	Use as an independent programmable outlet		
	H.TEMP	Enables operation of circuit A in summer despite manual or automatic summer shutdown		
	DHW	Connection of a second domestic hot water tank		
	DHW ELEC	Used to control the electrical resistor according to the timer programme on circuit A in summer mode		
	DISAB.	No data for circuit A is displayed		
O.PUMP A (1) (2)	**CH.PUMP A**	Heating pump circuit A: The ⏵A outlet is used to control the pump on circuit A	**CH.PUMP A**	
	CIRC.AUX	Used to resume the functions of the **S.AUX:** parameter without adding the PCB + sensor option (Package AD249)		
	DHW LOOP	Used to control the domestic hot water looping pump according to the DHW timer programme and force its operation during an override		
	PRIMARY PUMP	The outlet ⏵A is active if a heating demand is present on the secondary pump		
	ORDER BURNER	The outlet ⏵A is active when a burner demand is present		
	FAILURE	The outlet ⏵A is active if an fault is detected		
CIRC. B: (1)	**3WV**	Connecting a circuit with 3-way valve (For example: Underfloor heating)	**3WV**	
	SWIM.P.	Using the circuit for pool management		
	DIRECT	Use of circuit in direct heating circuit		
CIRC. C: (1)	**3WV**	Connecting a circuit with 3-way valve (For example: Underfloor heating)	**3WV**	
	SWIM.P.	Using the circuit for pool management		
	DIRECT	Use of circuit in direct heating circuit		
P.DHW: (1)	**PUMP**	Use of a tank load pump on the ⏵ outlet	**PUMP*** (3)	
	RV	DO NOT USE		
S.AUX (1)(4)	**DHW LOOP**	Use as a domestic loop pump	**DHW LOOP**	
	PROGRAM.	Use as an independent programmable outlet		
	PRIMARY PUMP	The outlet ⏵AUX is active if a heating demand is present on the secondary pump		
	ORDER BURNER	The outlet ⏵AUX is active when a burner demand is present		
	DHW	Use of primary circuit of second DHW tank		
	FAILURE	The outlet ⏵AUX is active if an fault is detected		
	DHW ELEC	Used to control the electrical resistor according to the timer programme on circuit AUX in summer mode		
I.SYST (1)	**SYSTEM**	The inlet sensor is used to connect the common flow sensor of a cascade system	**SYSTEM**	
	STORAGE TANK	Hot water storage tank affected to heating only		
	DHW STRAT	Using the DHW tank with 2 sensors (top and bottom)		
	ST.TANK+DHW	Hot water storage tank affected to heating and domestic hot water		

(1) The parameter is only displayed if **INSTALLATION** is set to **EXTENDED**
(2) If the pump incorporated in the boiler is used for circuit A (parameter **CIRC. A:** set to **DIRECT**), the ⏵A outlet is free
(3) This setting cannot be modified
(4) The parameter is only displayed if the parameter **O.PUMP A** is set to **CIRC.AUX** or the 3-way valve PCB option is connected

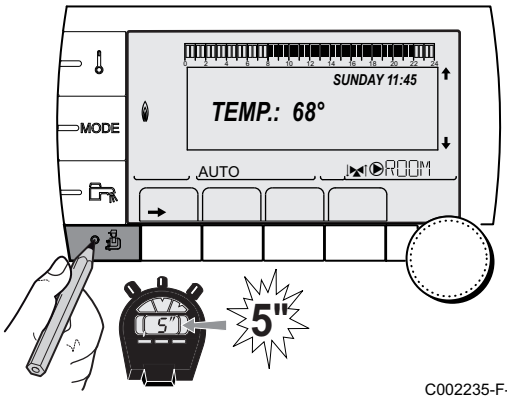
Installer level - #SYSTEM menu				
Parameter	**Adjustment range**	**Description**	**Factory setting**	**Customer setting**
O. TEL: (1)	**FAILURE**	The telephone outlet is closed in the event of failure	**FAILURE**	
	REVISION	The telephone outlet is closed in the event of revision display		
	DEF+REV	The telephone outlet is closed in the event of failure or revision display		
CT.TEL (1)	**CLOSE**	See table below.	**CLOSE**	
	OPEN			
I.TEL: (1)	**ANTIFR**	Start anti-freeze in boiler command	**ANTIFR**	
	0/1 A	ON or OFF contact: **I.TEL:** can be used as an antifreeze activation inlet on circuit A		
	0/1 B	ON or OFF contact: **I.TEL:** can be used as an antifreeze activation inlet on circuit B		
	0/1 A+B	ON or OFF contact: **I.TEL:** can be used as an antifreeze activation inlet on circuits A+B		
	0/1 C	ON or OFF contact: **I.TEL:** can be used as an antifreeze activation inlet on circuit C		
	0/1 A+C	ON or OFF contact: **I.TEL:** can be used as an antifreeze activation inlet on circuits A+C		
	0/1 B+C	ON or OFF contact: **I.TEL:** can be used as an antifreeze activation inlet on circuits B+C		
	0/1 A+B+C	ON or OFF contact: **I.TEL:** can be used as an antifreeze activation inlet on circuits A+B+C		
I.TEL: (1)	**0/1 DHW**	ON or OFF contact: **I.TEL:** can be used as an antifreeze activation inlet on circuit ECS	**ANTIFR**	
	0/1 A+DHW	ON or OFF contact: **I.TEL:** can be used as an antifreeze activation inlet on circuits A+ECS		
	0/1 B+DHW	ON or OFF contact: **I.TEL:** can be used as an antifreeze activation inlet on circuits B+ECS		
	0/1 A+B+DHW	ON or OFF contact: **I.TEL:** can be used as an antifreeze activation inlet on circuits A+B+ECS		
	0/1 C+DHW	ON or OFF contact: **I.TEL:** can be used as an antifreeze activation inlet on circuits C+ECS		
	0/1 A+C+DHW	ON or OFF contact: **I.TEL:** can be used as an antifreeze activation inlet on circuits A+C+ECS		
	0/1 B+C+DHW	ON or OFF contact: **I.TEL:** can be used as an antifreeze activation inlet on circuits B+C+ECS		
	0/1 AUX	ON or OFF contact: **I.TEL:** can be used as an antifreeze activation inlet on circuit AUX (**S.AUX:** if the AD249 option is connected or the parameter **O.PUMP A** is set to **CIRC.AUX**) When **I.TEL:** is not active, the auxiliary circuit (AUX) follows the maximum boiler temperature (parameter **BOILER MAX**).		

(1) The parameter is only displayed if **INSTALLATION** is set to **EXTENDED**
(2) If the pump incorporated in the boiler is used for circuit A (parameter **CIRC. A:** set to **DIRECT**), the ⏵A outlet is free
(3) This setting cannot be modified
(4) The parameter is only displayed if the parameter **O.PUMP A** is set to **CIRC.AUX** or the 3-way valve PCB option is connected

Influence of the parameter setting CT.TEL on the I.TEL: contact			
CT.TEL	**I.TEL:**	**☎ contact closed**	**☎ contact open**
CLOSE	**ANTIFR**	The antifreeze mode is active on all boiler circuits.	The mode selected on the boiler is active.
	0/1 A	The mode selected on the circuit is active.	The antifreeze mode is active on the circuit concerned.
	0/1 B	The mode selected on the circuit is active.	The antifreeze mode is active on the circuit concerned.
	0/1 A+B	The mode selected on the circuits is active.	The antifreeze mode is active on the circuits concerned.
	0/1 C	The mode selected on the circuit is active.	The antifreeze mode is active on the circuit concerned.
	0/1 A+C	The mode selected on the circuits is active.	The antifreeze mode is active on the circuits concerned.
	0/1 B+C	The mode selected on the circuits is active.	The antifreeze mode is active on the circuits concerned.
	0/1 A+B+C	The mode selected on the circuits is active.	The antifreeze mode is active on the circuits concerned.
	0/1 DHW	The mode selected on the DHW circuit is active.	The antifreeze mode is active for the DHW circuit.
	0/1 A+DHW	The mode selected on the circuits is active.	The antifreeze mode is active on the circuits concerned.
	0/1 B+DHW	The mode selected on the circuits is active.	The antifreeze mode is active on the circuits concerned.
	0/1 A+B+DHW	The mode selected on the circuits is active.	The antifreeze mode is active on the circuits concerned.
	0/1 C+DHW	The mode selected on the circuits is active.	The antifreeze mode is active on the circuits concerned.
	0/1 A+C+DHW	The mode selected on the circuits is active.	The antifreeze mode is active on the circuits concerned.
	0/1 B+C+DHW	The mode selected on the circuits is active.	The antifreeze mode is active on the circuits concerned.
	0/1 AUX	▸ The ⏵AUX outlet on the connection terminal block is active. ▸ The boiler operates at a set point temperature equal to **BOILER MAX**.	▸ The ⏵AUX outlet on the connection terminal block is not active. ▸ The boiler operates with a set point temperature as a function of the outside temperature.

Influence of the parameter setting CT.TEL on the I.TEL: contact			
CT.TEL	**I.TEL:**	**contact closed**	**contact open**
OPEN	**ANTIFR**	The mode selected on the boiler is active.	The antifreeze mode is active on all boiler circuits.
	0/1 A	The antifreeze mode is active on the circuit concerned.	The mode selected on the circuit is active.
	0/1 B	The antifreeze mode is active on the circuit concerned.	The mode selected on the circuit is active.
	0/1 A+B	The antifreeze mode is active on the circuits concerned	The mode selected on the circuits is active
	0/1 C	The antifreeze mode is active on the circuit concerned.	The mode selected on the circuit is active.
	0/1 A+C	The antifreeze mode is active on the circuits concerned	The mode selected on the circuits is active
	0/1 B+C	The antifreeze mode is active on the circuits concerned	The mode selected on the circuits is active
	0/1 A+B+C	The antifreeze mode is active on the circuits concerned	The mode selected on the circuits is active
	0/1 DHW	The antifreeze mode is active for the DHW circuit.	The mode selected on the DHW circuit is active.
	0/1 A+DHW	The antifreeze mode is active on the circuits concerned	The mode selected on the circuits is active
	0/1 B+DHW	The antifreeze mode is active on the circuits concerned	The mode selected on the circuits is active
	0/1 A+B+DHW	The antifreeze mode is active on the circuits concerned	The mode selected on the circuits is active
	0/1 C+DHW	The antifreeze mode is active on the circuits concerned	The mode selected on the circuits is active
	0/1 A+C+DHW	The antifreeze mode is active on the circuits concerned	The mode selected on the circuits is active
	0/1 B+C+DHW	The antifreeze mode is active on the circuits concerned	The mode selected on the circuits is active
	0/1 AUX	▸ The ⏵AUX outlet on the connection terminal block is not active. ▸ The boiler operates with a set point temperature as a function of the outside temperature.	▸ The ⏵AUX outlet on the connection terminal block is active. ▸ The boiler operates at a set point temperature equal to **BOILER MAX**.

5.3.3. Naming the circuits and generators

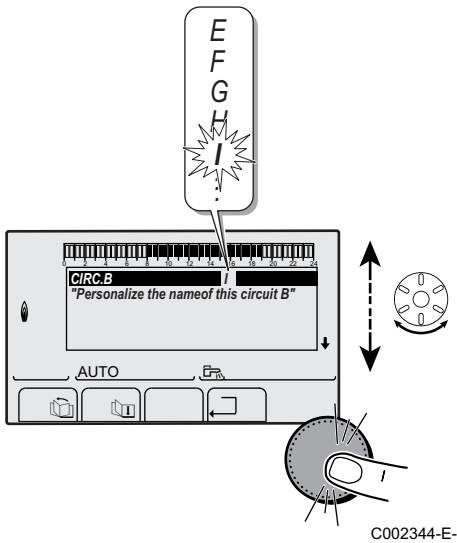


C002235-F-04

1. Access the installer level: Press key for around 5 seconds.
2. Select the menu **#NAMES OF THE CIRCUITS**.

- Turn the rotary button to scroll through the menus or modify a value.
- Press the rotary button to access the menu selected or confirm a value modification.

For a detailed explanation of menu browsing, refer to the chapter: "Browsing in the menus", page 31



C002344-E-04

3. Select the circuit or generator you wish to rename.

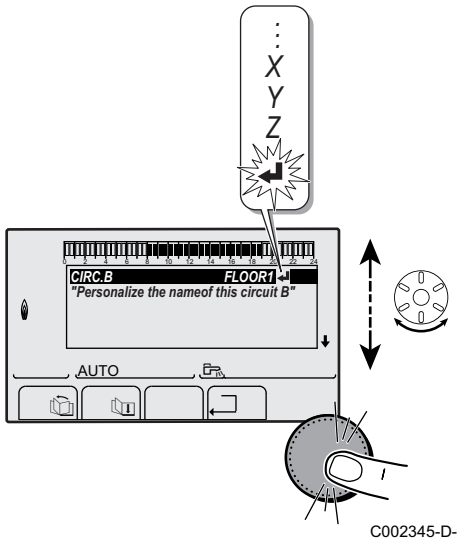
Installer level - Menu #NAMES OF THE CIRCUITS		
Parameter	**Description**	**Name given by the customer**
CIRC. A:	Circuit A	
CIRC. B:	Circuit B	
CIRC. C:	Circuit C	
CIRC.AUX	Auxiliary circuit	
CIRC.DHW	Domestic hot water circuit	
GENE	Generator	

4. Turn the rotary button to choose the first character from the list. To confirm, press the rotary button.
5. Then press again to enter a second character or turn the rotary button to leave an empty space.
6. Choose the other characters in the same way. The input zone may contain up to 6 characters.

To move from one character to another, turn the rotary button. To exit without modifications, press key ESC.

7. To confirm the name, press the rotary button and then turn the button slightly anti-clockwise. When the symbol ↵ appears, press the rotary button. The name is confirmed.

If the name reaches 6 characters, it is automatically confirmed when the last character is confirmed.



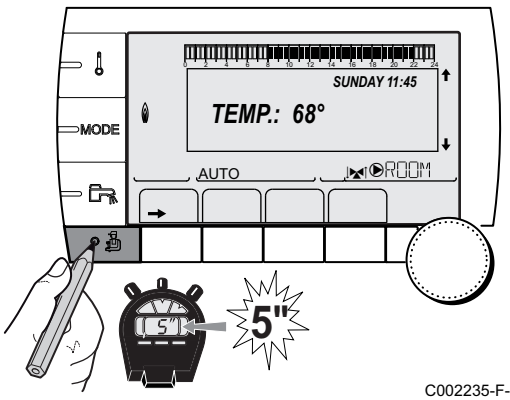
C002345-D-04

5.3.4. Setting the heating curve

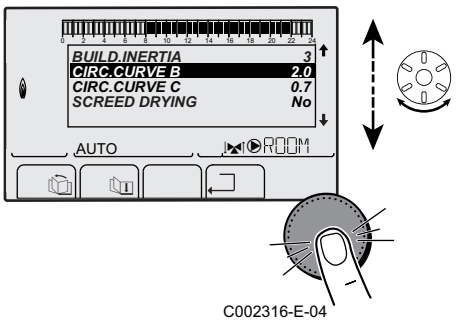
1. Access the installer level: Press key for around 5 seconds.
2. Select the menu **#SECONDARY INSTAL.P**.

- Turn the rotary button to scroll through the menus or modify a value.
- Press the rotary button to access the menu selected or confirm a value modification.

For a detailed explanation of menu browsing, refer to the chapter: "Browsing in the menus", page 31.

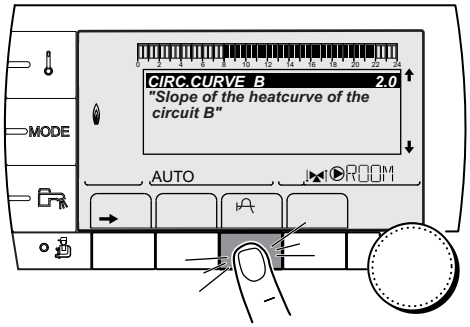


C002235-F-04



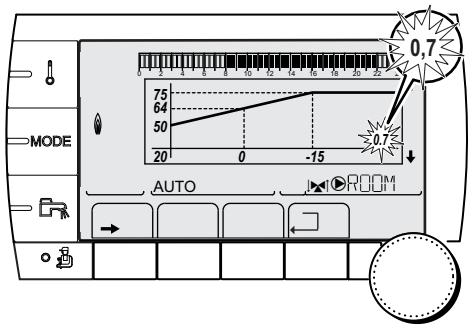
C002316-E-04

3. Select the parameter **CIRC. CURVE ...**.



C002317-D-04

4. To modify the value directly, turn the rotary button.
   To modify the value by displaying the curve, press key .

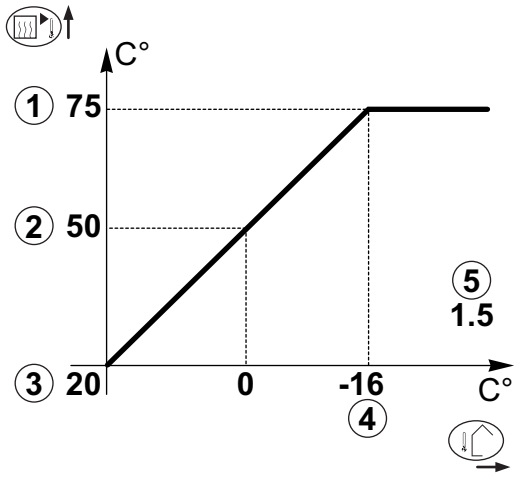


C002318-B-04

5. To modify the curve, turn the rotary button.
6. To confirm, press the rotary button.
   To cancel, press key ESC.

0.7 = Heating curve set.

Heating curve without BCT



C002319-B

① Maximum temperature of the circuit

② Water temperature in the circuit for an outside temperature of 0°C

③ **DAY** set point on the circuit

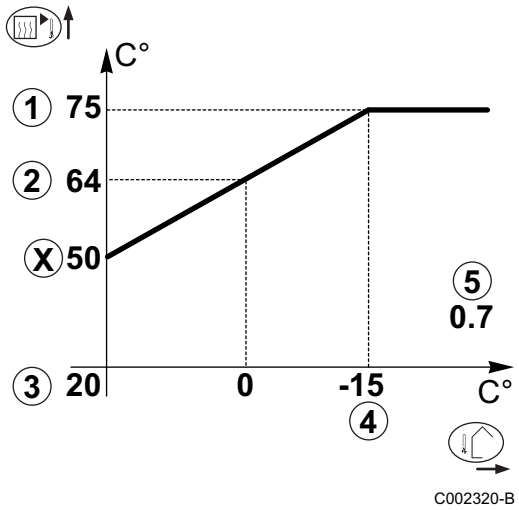
④ Outside temperature for which the maximum water temperature in the circuit is reached

⑤ Value of the heating curve
Select the parameter **CIRC. CURVE ...**

When you modify the heating curve, ② and ④ are recalculated and repositioned automatically.

■ Heating curve with BCT

The **BCT** (Base heat Curve Temperature) parameter allows a minimum operating temperature to be imposed on the heating circuit (this temperature may be constant if the circuit gradient is nil).



C002320-B

① Maximum temperature of the circuit

② Water temperature in the circuit for an outside temperature of 0°C

③ **DAY** set point on the circuit

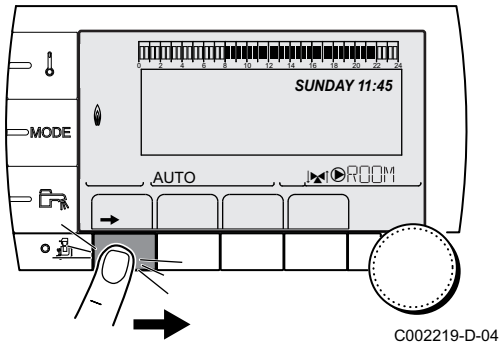
④ Outside temperature for which the maximum water temperature in the circuit is reached

⑤ Value of the heating curve
Select the parameter **CIRC. CURVE ...**

x Value set to the parameter **HCZP D**

When you modify the heating curve, ② and ④ are recalculated and repositioned automatically.

5.4 Reading out measured values



C002219-D-04

The various values measured by the appliance are displayed in the **#MEASURES** menu.

1. To access user level: Press the ➞ key.
2. Select the menu **#MEASURES**.

- Turn the rotary button to scroll through the menus or modify a value.
- Press the rotary button to access the menu selected or confirm a value modification.

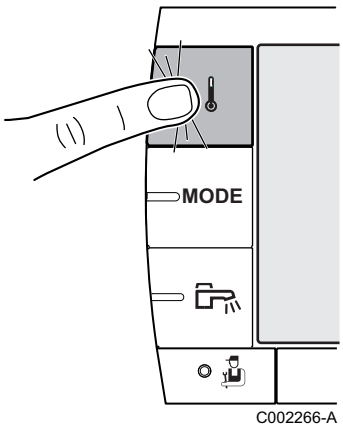
For a detailed explanation of menu browsing, refer to the chapter: "Browsing in the menus", page 31.

User level - Menu #MEASURES		
Parameter	**Description**	**Unit**
OUTSIDE TEMP.	Outside temperature	°C
ROOMTEMP. A (1)	Room temperature of circuit A	°C
ROOMTEMP. B (1)	Room temperature of circuit B	°C
ROOMTEMP. C (1)	Room temperature of circuit C	°C
BOILER TEMP.	Water temperature in the boiler	°C
PRESSURE	Water pressure in the installation	bar
WATER TEMP. (1)	Water temperature in the DHW tank	°C
STOR.TANK.TEMP (1)	Water temperature in the storage tank	°C
SWIMMING P.T.B (1)	Water temperature of the swimming pool on circuit B	°C
(1) The parameter is only displayed for the options, circuits or sensors actually connected.		

User level - Menu #MEASURES		
Parameter	**Description**	**Unit**
SWIMMING P.T.C (1)	Water temperature of the swimming pool on circuit C	°C
OUTLET TEMP. B (1)	Temperature of the flow water in circuit B	°C
OUTLET TEMP. C (1)	Temperature of the flow water in circuit C	°C
SYST.TEMP (1)	Temperature of the system flow water if multi-generator	°C
T.DHW BOTTOM (1)	Water temperature in the bottom of the DHW tank	°C
TEMP.TANK AUX (1)	Water temperature in the second DHW tank connected to the AUX circuit	°C
DHW A TEMP. (1)	Water temperature in the second DHW tank connected to circuit A	°C
TEMP.EXCHANGE	Exchanger sensor measurement	°C
BACK TEMP	Temperature of the boiler return water	°C
WIND SPEED	Fan rotation speed	rpm
POWER	Instantaneous boiler output (0%: Burner off or running at minimum output)	%
CURRENT (µA)	Ionization current	µA
NB IMPULS.	Number of burner starts (not restartable) The meter is incremented by 8 every 8 start-ups	
RUNTIME	Number of burner operation hours (not restartable) The meter is incremented by 2 every 2 hours	h
IN 0-10V (1)	Voltage at input 0-10 V	V
SEQUENCE	Control system sequence	
CTRL	Software control number	
(1) The parameter is only displayed for the options, circuits or sensors actually connected.		

5.5 Modifying the user settings

5.5.1. Setting the set point temperatures



To set the various heating, DHW and swimming pool temperatures, proceed as follows:

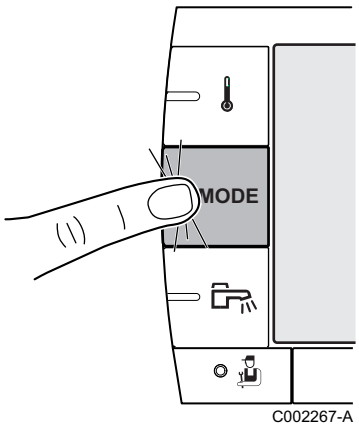
1. Press the key.
2. To select the desired parameter, turn the rotary button.
3. To modify the parameter, press the rotary button.
   To go back to the previous display, press the key .
4. To modify the parameter, turn the rotary button.
5. To confirm, press the rotary button.

To cancel, press key ESC.

Menu			
Parameter	**Adjustment range**	**Description**	**Factory setting**
DAY TEMP. A	5 to 30 °C	Desired room temperature in comfort periods on circuit A	20 °C
NIGHT TEMP. A	5 to 30 °C	Desired room temperature in reduced periods on circuit A	16 °C
DAY TEMP. B (1)	5 to 30 °C	Desired room temperature in comfort periods on circuit B	20 °C
NIGHT TEMP. B (1)	5 to 30 °C	Desired room temperature in reduced periods on circuit B	16 °C
DAY TEMP. C (1)	5 to 30 °C	Desired room temperature in comfort periods on circuit C	20 °C
NIGHT TEMP. C (1)	5 to 30 °C	Desired room temperature in reduced periods on circuit C	16 °C
WATER TEMP. (1)	10 to 80 °C	Desired domestic hot water temperature in the DHW circuit	55 °C
WATER T.NIGHT(1) (2)	10 to 80 °C	Set tank temperature, night programme	10 °C
TEMP.TANK AUX (1)	10 to 80 °C	Desired domestic hot water temperature in the auxiliary circuit	55 °C
AUX.TANK T.NIGHT(1)(2)	10 to 80 °C	Set tank temperature, night programme	10 °C
DHW A TEMP. (1)	10 to 80 °C	Desired domestic hot water temperature in circuit A	55 °C
A.TANK T.NIGHT(1) (2)	10 to 80 °C	Set tank temperature, night programme	10 °C
SWIMMING P.T.B (1)	5 to 39 °C	Desired temperature for swimming pool B	20 °C
SWIMMING P.T.C (1)	5 to 39 °C	Desired temperature for swimming pool C	20 °C

(1) The parameter is only displayed for the options, circuits or sensors actually connected.
(2) The parameter is only displayed if **INSTALLATION** parameter is set to **EXTENDED**

5.5.2. Selecting the operating mode



C002267-A

To select an operating mode, proceed as follows:

1. Press the **MODE** key.
2. To select the desired parameter, turn the rotary button.
3. To modify the parameter, press the rotary button.
   To go back to the previous display, press the key ⮌.
4. To modify the parameter, turn the rotary button.
5. To confirm, press the rotary button.

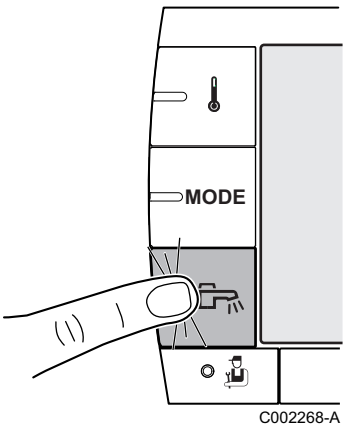
To cancel, press key ESC.

Menu MODE			
Parameter	**Adjustment range**	**Description**	**Factory setting**
AUTOMATIQUE		The comfort ranges are determined by the timer programme.	
DAY	7/7, xx:xx	Comfort mode is forced until the time indicated or all the time (7/7).	Present time + 1 hour
NIGHT	7/7, xx:xx	Reduced mode is forced until the time indicated or all the time (7/7).	Present time + 1 hour

(1) The start and end days and the number of days are calculated in relation to each other.
(2) The parameter is only displayed if a room sensor is connected.

Menu MODE			
Parameter	**Adjustment range**	**Description**	**Factory setting**
HOLIDAYS	7/7, 1 to 365	The antifreeze mode is active on all boiler circuits. Number of days' holiday: xx (1) heating OFF: xx:xx (1) Restarting: xx:xx (1)	Present date + 1 day
SUMMER		The heating is off. Domestic hot water continues to be produced.	
MANUEL		The generator operates according to the set point setting. All of the pumps operate. Option of setting the set point by simply turning the rotary button.	
FORCE AUTO (2)	**YES** / **NO**	An operating mode override is activated on the remote control (option). To force all circuits to run on **AUTOMATIQUE** mode, select **YES**.	
(1) The start and end days and the number of days are calculated in relation to each other. (2) The parameter is only displayed if a room sensor is connected.			

5.5.3. Forcing domestic hot water production



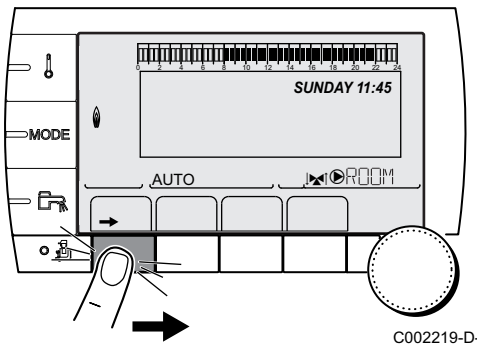
To force domestic hot water production, proceed as follows:

1. Press the key.
2. To select the desired parameter, turn the rotary button.
3. To modify the parameter, press the rotary button.
   To go back to the previous display, press the key ⮌.
4. To modify the parameter, turn the rotary button.
5. To confirm, press the rotary button.

To cancel, press key ESC.

Menu		
Parameter	**Description**	**Factory setting**
AUTOMATIQUE	The domestic hot water comfort ranges are determined by the timer programme.	
COMFORT	Domestic hot water comfort mode is forced until the time indicated or all the time (7/7).	Present time + 1 hour

5.5.4. Setting the contrast and lighting on the display



C002219-D-04

1. To access user level: Press the → key.
2. Select the menu **#SETTING**.

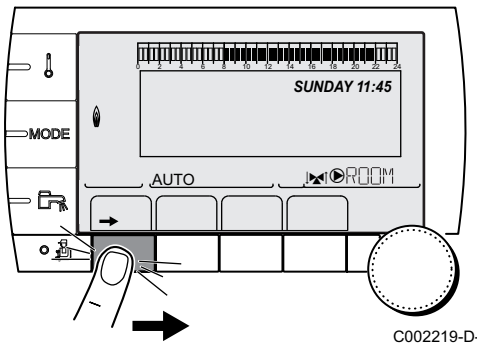
- Turn the rotary button to scroll through the menus or modify a value.
- Press the rotary button to access the menu selected or confirm a value modification.

For a detailed explanation of menu browsing, refer to the chapter: "Browsing in the menus", page 31.

3. To set the following parameters:

User level - Menu #SETTING				
Parameter	**Adjustment range**	**Description**	**Factory setting**	**Customer setting**
CONTRAST DISP.		Adjusting the display contrast.		
BACK LIGHT	**COMFORT**	The screen is illuminated continuously in daytime periods.	**ECO**	
	ECO	The screen is illuminated for 2 minutes whenever pressed.		

5.5.5. Setting the time and date



C002219-D-04

1. To access user level: Press the → key.
2. Select the menu **#TIME .DAY**.

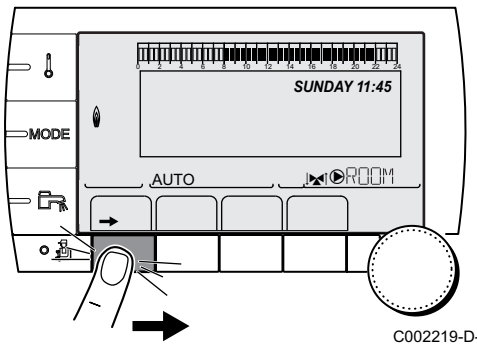
- Turn the rotary button to scroll through the menus or modify a value.
- Press the rotary button to access the menu selected or confirm a value modification.

For a detailed explanation of menu browsing, refer to the chapter: "Browsing in the menus", page 31.

3. To set the following parameters:

User level - Menu #TIME .DAY (1)				
Parameter	**Adjustment range**	**Description**	**Factory setting**	**Customer setting**
HOURS	0 to 23	Hours setting		
MINUTE	0 to 59	Minutes setting		
DAY	Monday to Sunday	Setting the day of the week		
DATE	1 to 31	Day setting		
MONTH	January to December	Month setting		
YEAR	2008 to 2099	Year setting		
SUM. TIME:	**AUTO**	automatic switch to summer time on the last Sunday in March and back to winter time on the last Sunday in October.	**AUTO**	
	MANU	for countries where the time change is done on other dates or is not in use.		
(1) According to the configuration				

5.5.6. Selecting a timer programme



C002219-D-04

1. To access user level: Press the ➞ key.
2. Select the menu **#CHOICE TIME PROG.**.

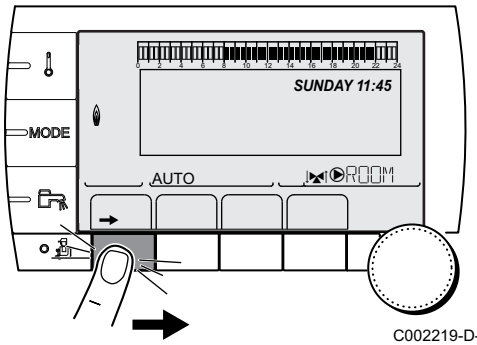
- Turn the rotary button to scroll through the menus or modify a value.
- Press the rotary button to access the menu selected or confirm a value modification.

For a detailed explanation of menu browsing, refer to the chapter: "Browsing in the menus", page 31.

3. To select the desired parameter.
4. Assign the desired timer programme (P1 to P4) to the circuit with the rotary button.

User level - Menu #CHOICE TIME PROG.		
Parameter	**Adjustment range**	**Description**
CURRENT PROG.A	P1 / P2 / P3 / P4	Comfort programme activated (Circuit A)
CURRENT PROG.B	P1 / P2 / P3 / P4	Comfort programme activated (Circuit B)
CURRENT PROG.C	P1 / P2 / P3 / P4	Comfort programme activated (Circuit C)

5.5.7. Customising a timer programme



C002219-D-04

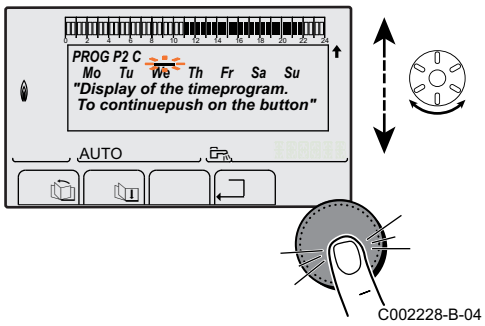
1. To access user level: Press the ➞ key.
2. Select the menu **#TIME PROGRAM**.

- Turn the rotary button to scroll through the menus or modify a value.
- Press the rotary button to access the menu selected or confirm a value modification.

For a detailed explanation of menu browsing, refer to the chapter: "Browsing in the menus", page 31.

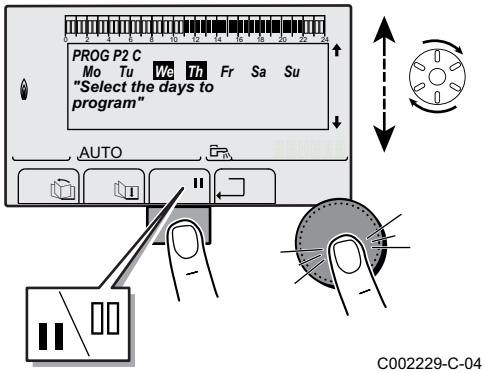
3. To select the desired parameter.

User level - Menu #TIME PROGRAM		
Parameter	**Time schedule**	**Description**
TIME PROG.A	**PROG P2 A** **PROG P3 A** **PROG P4 A**	Timer programme for circuit A
TIME PROG.B	**PROG P2 B** **PROG P3 B** **PROG P4 B**	Timer programme for circuit B
TIME PROG.C	**PROG P2 C** **PROG P3 C** **PROG P4 C**	Timer programme for circuit C
TIME PROG.DHW		DHW circuit timer programme
TIME PROG.AUX		Auxiliary circuit timer programme



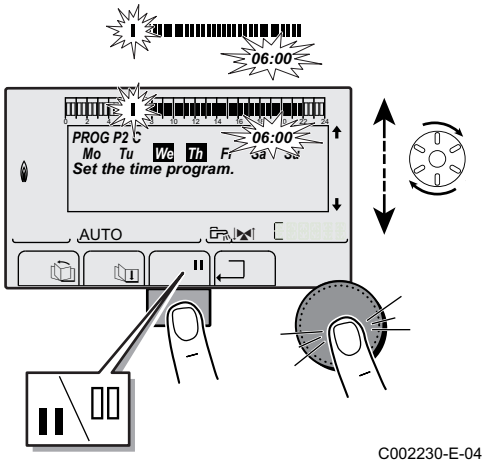
C002228-B-04

4. To select a timer programme to be modified.
5. **To select to days for which the timer programme is to be modified**:
   Turn the rotary button to the left until you reach the day desired.
   To confirm, press the rotary button.



C002229-C-04

6. ▮▮ : **Day selection**
   Press key ▮▮ / ▯▯ until the symbol ▮▮ is displayed.
   Turn the rotary button to the right to select the day(s) desired.
   ▯▯ : **Cancelling the day selection**
   Press key ▮▮ / ▯▯ until the symbol ▯▯ is displayed.
   Turn the rotary button to the right to cancel selection of the relevant day(s).
7. When the days desired for the programme have been selected, press the rotary button to confirm.



C002230-E-04

8. **To define the timer ranges for the comfort mode and reduced mode**:
   Turn the rotary button to the left until **0:00** is displayed. The first segment of the graphic bar for the timer programme flashes.
9. ▮▮ : **Comfort mode selection**
   Press key ▮▮ / ▯▯ until the symbol ▮▮ is displayed.
   To select a comfort time range, turn the rotary button to the right.
   ▯▯ : **Reduced mode selection**
   Press key ▮▮ / ▯▯ until the symbol ▯▯ is displayed.
   To select a reduced time range, turn the rotary button to the right.
10. When the times for the comfort mode have been selected, press the rotary button to confirm.

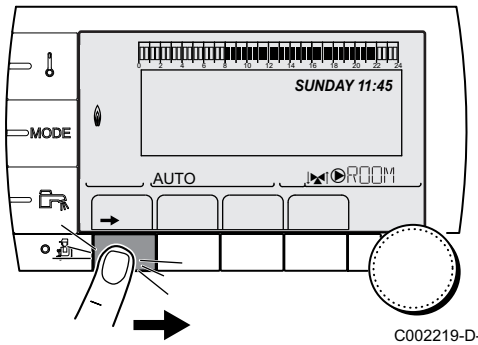
User level - Menu #TIME PROGRAM					
	Day	**Comfort periods / Filling enabled:**			
		P1 _____	**P2** _____	**P3** _____	**P4** _____
TIME PROG.A	Monday	6:00 to 22:00			
	Tuesday	6:00 to 22:00			
	Wednesday	6:00 to 22:00			
	Thursday	6:00 to 22:00			
	Friday	6:00 to 22:00			
	Saturday	6:00 to 22:00			
	Sunday	6:00 to 22:00			

User level - Menu #TIME PROGRAM					
	Day	Comfort periods / Filling enabled:			
		P1 _____	P2 _____	P3 _____	P4 _____
TIME PROG.B	Monday	6:00 to 22:00			
	Tuesday	6:00 to 22:00			
	Wednesday	6:00 to 22:00			
	Thursday	6:00 to 22:00			
	Friday	6:00 to 22:00			
	Saturday	6:00 to 22:00			
	Sunday	6:00 to 22:00			
TIME PROG.C	Monday	6:00 to 22:00			
	Tuesday	6:00 to 22:00			
	Wednesday	6:00 to 22:00			
	Thursday	6:00 to 22:00			
	Friday	6:00 to 22:00			
	Saturday	6:00 to 22:00			
	Sunday	6:00 to 22:00			
TIME PROG.DHW	Monday				
	Tuesday				
	Wednesday				
	Thursday				
	Friday				
	Saturday				
	Sunday				
TIME PROG.AUX	Monday				
	Tuesday				
	Wednesday				
	Thursday				
	Friday				
	Saturday				
	Sunday				

5.5.8. Setting an annual clock

The annual clock is used to programme up to 10 heating stop periods over one year. The circuits selected for this stop are in Antifreeze mode during the period chosen.

1. To access user level: Press the ➞ key.
2. Select the menu **#ANNUAL PROG**.



C002219-D-04

- Turn the rotary button to scroll through the menus or modify a value.
- Press the rotary button to access the menu selected or confirm a value modification.

For a detailed explanation of menu browsing, refer to the chapter: "Browsing in the menus", page 31.

3. To select the desired parameter.

OFF	No stop
A	circuit A
B	circuit B
A+B	circuit A, B
C	circuit C
A+C	circuit A, C
B+C	circuit B, C
A+B+C	circuit A, B, C
SU	DHW circuit
A+E	circuit A and DHW
B+E	circuit B and DHW
A+B+W	circuit A, B and DHW
C+E	circuit C and DHW
A+C+W	circuit A, C and DHW
B+C+W	circuit B, C and DHW
ALL	circuit A, B, C and DHW

4. Set the start date and the end date of the shutdown selected.
5. To deactivate a shutdown, select the shutdown and set to **OFF**.
6. To select another shutdown, press the button.

Annual programme (Factory setting)			
Stop no.	Circuit concerned	Start date	End date
1	**OFF**	01-01	01-01
2	**OFF**	01-01	01-01
3	**OFF**	01-01	01-01
4	**OFF**	01-01	01-01
5	**OFF**	01-01	01-01
6	**OFF**	01-01	01-01
7	**OFF**	01-01	01-01
8	**OFF**	01-01	01-01
9	**OFF**	01-01	01-01
10	**OFF**	01-01	01-01

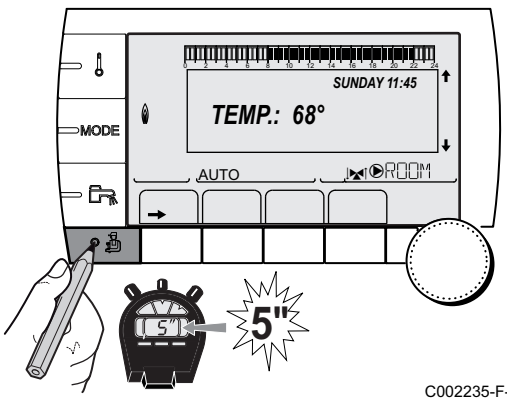
For example: Customised programming			
Stop no.	Circuit concerned	Start date	End date
1	**A+C**	01-11	10-11
2	**A+C**	20-12	02-01

If setting **STOP**: **OFF**, the stop is deactivated and the start and end dates are not displayed.

User level - Menu #ANNUAL PROG				
		Description	**Factory setting**	**Adjustment range**
STOP N 1:		Selection of the circuit stopped	**OFF**	**OFF**, **A**, **B**, **A+B**, **C**, **A+C**, **B+C**, **A+B+C**, **SU**, **A+E**, **B+E**, **A+B+W**, **C+E**, **A+C+W**, **B +C+W**, **ALL**
	BEG.DATE N 01	Setting start date of the stop	01	1-31
	BEG.MONTH N 01	Setting start month of the stop	01	1-12
	END DATE N 01	Setting end date of the stop	01	1-31
	END MONTH N 01	Setting end month of the stop	01	1-12
STOP N 2:		Selection of the circuit stopped	**OFF**	**OFF**, **A**, **B**, **A+B**, **C**, **A+C**, **B+C**, **A+B+C**, **SU**, **A+E**, **B+E**, **A+B+W**, **C+E**, **A+C+W**, **B +C+W**, **ALL**
	BEG.DATE N 02	Setting start date of the stop	01	1-31
	BEG.MONTH N 02	Setting start month of the stop	01	1-12
	END DATE N 02	Setting end date of the stop	01	1-31
	END MONTH N 02	Setting end month of the stop	01	1-12
STOP N 3:		Selection of the circuit stopped	**OFF**	**OFF**, **A**, **B**, **A+B**, **C**, **A+C**, **B+C**, **A+B+C**, **SU**, **A+E**, **B+E**, **A+B+W**, **C+E**, **A+C+W**, **B +C+W**, **ALL**
	BEG.DATE N 03	Setting start date of the stop	01	1-31
	BEG.MONTH N 03	Setting start month of the stop	01	1-12
	END DATE N 03	Setting end date of the stop	01	1-31
	END MONTH N 03	Setting end month of the stop	01	1-12
STOP N 4:		Selection of the circuit stopped	**OFF**	**OFF**, **A**, **B**, **A+B**, **C**, **A+C**, **B+C**, **A+B+C**, **SU**, **A+E**, **B+E**, **A+B+W**, **C+E**, **A+C+W**, **B +C+W**, **ALL**
	BEG.DATE N 04	Setting start date of the stop	01	1-31
	BEG.MONTH N 04	Setting start month of the stop	01	1-12
	END DATE N 04	Setting end date of the stop	01	1-31
	END MONTH N 04	Setting end month of the stop	01	1-12
STOP N 5:		Selection of the circuit stopped	**OFF**	**OFF**, **A**, **B**, **A+B**, **C**, **A+C**, **B+C**, **A+B+C**, **SU**, **A+E**, **B+E**, **A+B+W**, **C+E**, **A+C+W**, **B +C+W**, **ALL**
	BEG.DATE N 05	Setting start date of the stop	01	1-31
	BEG.MONTH N 05	Setting start month of the stop	01	1-12
	END DATE N 05	Setting end date of the stop	01	1-31
	END MONTH N 05	Setting end month of the stop	01	1-12
STOP N 6:		Selection of the circuit stopped	**OFF**	**OFF**, **A**, **B**, **A+B**, **C**, **A+C**, **B+C**, **A+B+C**, **SU**, **A+E**, **B+E**, **A+B+W**, **C+E**, **A+C+W**, **B +C+W**, **ALL**
	BEG.DATE N 06	Setting start date of the stop	01	1-31
	BEG.MONTH N 06	Setting start month of the stop	01	1-12
	END DATE N 06	Setting end date of the stop	01	1-31
	END MONTH N 06	Setting end month of the stop	01	1-12
STOP N 7:		Selection of the circuit stopped	**OFF**	**OFF**, **A**, **B**, **A+B**, **C**, **A+C**, **B+C**, **A+B+C**, **SU**, **A+E**, **B+E**, **A+B+W**, **C+E**, **A+C+W**, **B +C+W**, **ALL**
	BEG.DATE N 07	Setting start date of the stop	01	1-31
	BEG.MONTH N 07	Setting start month of the stop	01	1-12
	END DATE N 07	Setting end date of the stop	01	1-31
	END MONTH N 07	Setting end month of the stop	01	1-12

User level - Menu #ANNUAL PROG				
		Description	**Factory setting**	**Adjustment range**
STOP N 8:		Selection of the circuit stopped	**OFF**	**OFF**, **A**, **B**, **A+B**, **C**, **A+C**, **B+C**, **A+B+C**, **SU**, **A+E**, **B+E**, **A+B+W**, **C+E**, **A+C+W**, **B +C+W**, **ALL**
	BEG.DATE N 08	Setting start date of the stop	01	1-31
	BEG.MONTH N 08	Setting start month of the stop	01	1-12
	END DATE N 08	Setting end date of the stop	01	1-31
	END MONTH N 08	Setting end month of the stop	01	1-12
STOP N 9:		Selection of the circuit stopped	**OFF**	**OFF**, **A**, **B**, **A+B**, **C**, **A+C**, **B+C**, **A+B+C**, **SU**, **A+E**, **B+E**, **A+B+W**, **C+E**, **A+C+W**, **B +C+W**, **ALL**
	BEG.DATE N 09	Setting start date of the stop	01	1-31
	BEG.MONTH N 09	Setting start month of the stop	01	1-12
	END DATE N 09	Setting end date of the stop	01	1-31
	END MONTH N 09	Setting end month of the stop	01	1-12
STOP N 10:		Selection of the circuit stopped	**OFF**	**OFF**, **A**, **B**, **A+B**, **C**, **A+C**, **B+C**, **A+B+C**, **SU**, **A+E**, **B+E**, **A+B+W**, **C+E**, **A+C+W**, **B +C+W**, **ALL**
	BEG.DATE N 10	Setting start date of the stop	01	1-31
	BEG.MONTH N 10	Setting start month of the stop	01	1-12
	END DATE N 10	Setting end date of the stop	01	1-31
	END MONTH N 10	Setting end month of the stop	01	1-12

5.6 Modifying the installer settings



C002235-F-04

5.6.1. Language selection

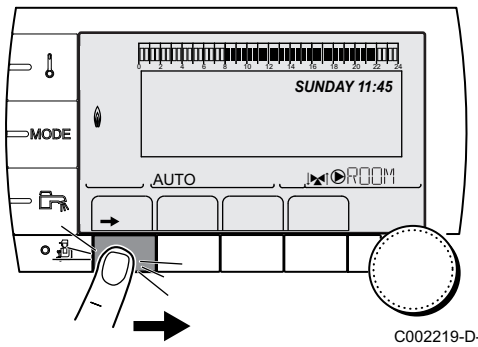
1. Access the installer level: Press key for around 5 seconds.
2. Select the menu **#LANGUAGE**.

- Turn the rotary button to scroll through the menus or modify a value.
- Press the rotary button to access the menu selected or confirm a value modification.

For a detailed explanation of menu browsing, refer to the chapter: "Browsing in the menus", page 31

Installer level - Menu #LANGUAGE	
Adjustment range	**Description**
FRANCAIS	Display in French
DEUTSCH	Display in German
ENGLISH	Display in English
ITALIANO	Display in Italian
ESPANOL	Display in Spanish
NEDERLANDS	Display in Dutch
POLSKI	Display in Polish
РУССКИЙ	Display in Russian
TÜRK	Display in Turkish

5.6.2. Calibrating the sensors



C002219-D-04

1. To access user level: Press the ➞ key.
2. Select the menu **#SETTING**.

- Turn the rotary button to scroll through the menus or modify a value.
- Press the rotary button to access the menu selected or confirm a value modification.

For a detailed explanation of menu browsing, refer to the chapter: "Browsing in the menus", page 31

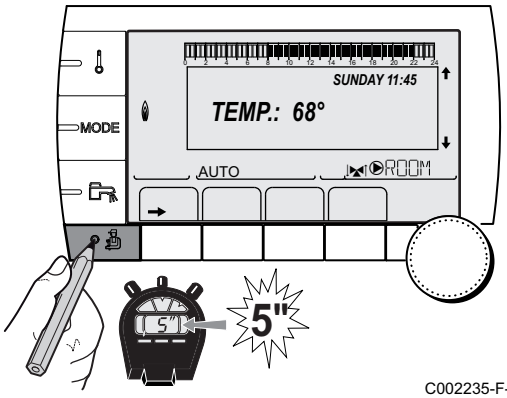
3. To set the following parameters:

User level - Menu #SETTING				
Parameter	**Adjustment range**	**Description**	**Factory setting**	**Customer setting**
SUM/WIN	15 to 30 °C	Used to set the outside temperature above which heating will be shut down. ▸ The heating pumps are shut down. ▸ The burner will only start for domestic hot water needs. ▸ The symbol appears.	22 °C	
	NO	Heating is never shut down automatically		
CALIBR. OUT		Outside sensor calibration: Used to correct the outside temperature	Outside temperature	
CALIBR. ROOM A (1)(2)		Calibration of the room sensor on circuit A Make this setting 2 hours after switching on, when the room temperature has stabilised	Room temperature of circuit A	
OFFSET ROOM A (1) (3)	-5.0 to +5.0 °C	Room offset on circuit A: Is used to set a room offset Make this setting 2 hours after switching on, when the room temperature has stabilised	0.0	
ANTIFR. ROOM A	0.5 to 20 °C	Room temperature antifreeze activation on circuit A	6 °C	
CALIBR. ROOM B (2)(1)(4)		Calibration of the room sensor on circuit B Make this setting 2 hours after switching on, when the room temperature has stabilised	Room temperature of circuit B	
OFFSET ROOM B (3) (4)(1)	-5.0 to +5.0 °C	Room offset on circuit B: Is used to set a room offset Make this setting 2 hours after switching on, when the room temperature has stabilised	0.0	
ANTIFR. ROOM B (4)	0.5 to 20 °C	Room temperature at which the antifreeze mode is activated on circuit B	6 °C	

(1) The parameter is only displayed if **INSTALLATION** is set to **EXTENDED**
(2) The parameter is only displayed if a room sensor is connected to the circuit concerned
(3) The parameter is only displayed if no room sensor is connected to the circuit concerned or the sensor has no influence
(4) The parameter is only displayed if the circuit concerned is actually connected

User level - Menu #SETTING				
Parameter	**Adjustment range**	**Description**	**Factory setting**	**Customer setting**
CALIBR. ROOM C (4)(1)(2)		Calibration of the room sensor on circuit C Make this setting 2 hours after switching on, when the room temperature has stabilised	Room temperature of circuit C	
OFFSET ROOM C (4) (1)(3)	-5.0 to +5.0 °C	Room offset on circuit C: Is used to set a room offset Make this setting 2 hours after switching on, when the room temperature has stabilised	0.0	
ANTIFR. ROOM C (4)	0.5 to 20 °C	Room temperature antifreeze activation on circuit C	6 °C	
(1) The parameter is only displayed if **INSTALLATION** is set to **EXTENDED** (2) The parameter is only displayed if a room sensor is connected to the circuit concerned (3) The parameter is only displayed if no room sensor is connected to the circuit concerned or the sensor has no influence (4) The parameter is only displayed if the circuit concerned is actually connected				

5.6.3. Professional settings



C002235-F-04

1. Access the installer level: Press key for around 5 seconds.
2. To set the following parameters:

- Turn the rotary button to scroll through the menus or modify a value.
- Press the rotary button to access the menu selected or confirm a value modification.

For a detailed explanation of menu browsing, refer to the chapter: "Browsing in the menus", page 31.

Installer level - #PRIMARY LIMITS menu				
Parameter	**Adjustment range**	**Description**	**Factory setting**	**Customer setting**
BOILER MAX	20 to 90 °C	Maximum boiler temperature	75 °C	
MAX.R.HEAT(%) (1)	0-100%	Maximum boiler output during heating	100%	
MAX.DHW(%) (1)(2)	0-100%	Maximum boiler output in DHW	100%	
MIN.VENT. (1)	1000-5000 rpm	Minimum fan speed	See table below	
MAX.VENT. (1)	1000-7000 rpm	Maximum fan speed setting in heating	See table below	
START RPM (1)	1000-5000 rpm	Optimum start-up speed setting	See table below	
MIN.PUMP SPEED (1)	20-100%	Minimum pump speed	20 %	
MAX.PUMP SPEED (1)	20-100%	Maximum pump speed	60 %	
(1) The parameter is only displayed if **INSTALLATION** parameter is set to **EXTENDED** (2) The parameter is only displayed if **P.DHW** is set to **PUMP**				

Type of gas used	Parameter	Unit	C 330-5	C 330-6	C 330-7	C 330-8	C 330-9	C 330-10
Gas H (G20)	**MIN.VENT.**	rpm	1300	1400	1000	1000	1100	1100
	MAX.VENT.	rpm	5400	5500	3500	3900	4200	3900
	START SP.	rpm	2500	2500	1300	1400	1400	1700

Type of gas used	Parameter	Unit	C 330-5	C 330-6	C 330-7	C 330-8	C 330-9	C 330-10
Gas L (G25)	**MIN.VENT.**	rpm	1300	1400	1000	1000	1100	1100
	MAX.VENT.	rpm	5500	5600	3600	4000	4200	4000
	START SP.	rpm	2500	2500	1300	1400	1400	1700

Type of gas used	Parameter	Unit	C 630-5	C 630-6	C 630-7	C 630-8	C 630-9	C 630-10
Gas H (G20)	**MIN.VENT.**	rpm	1700	1800	1300	1300	1500	1300
	MAX.VENT.	rpm	5500	5500	3800	4200	4500	4400
	START SP.	rpm	2500	2500	1400	1400	1500	1700
Gas L (G25)	**MIN.VENT.**	rpm	1700	1800	1300	1300	1500	1300
	MAX.VENT.	rpm	5500	5500	3800	4200	4500	4500
	START SP.	rpm	2500	2500	1400	1400	1500	1700

Installer level - Menu #SECONDARY LIMITS			
Parameter	**Adjustment range**	**Description**	**Factory setting**
MAX.CIRC.A	20 to 95 °C	Maximum temperature (Circuit A) "**MAX.CIRC...**", page 57	75 °C
MAX.CIRC.B	20 to 95 °C	Maximum temperature (Circuit B) "**MAX.CIRC...**", page 57	50 °C
MAX.CIRC.C	20 to 95 °C	Maximum temperature (Circuit C) "**MAX.CIRC...**", page 57	50 °C
OUT.ANTIFREEZE	**OFF**, -8 to +10 °C	Outside temperature at which the installation's antifreeze protection is activated. Below this temperature the pumps are permanently on and the minimum temperatures for each circuit are respected. When **NIGHT :STOP** is set, the reduced temperature is maintained in each circuit (Menu **#SECONDARY INSTAL.P**). **OFF**: Antifreeze protection is not activated	+3 °C
HCZP D A (1) (2)	**OFF**, 20 to 90 °C	Curve base temperature in Daytime mode (Circuit A)	**OFF**
HCZP N A (1) (2)	**OFF**, 20 to 90 °C	Curve base temperature in Nighttime mode (Circuit A)	**OFF**
HCZP D B (1) (2)	**OFF**, 20 to 90 °C	Curve base temperature in Daytime mode (Circuit B)	**OFF**
HCZP N B (1) (2)	**OFF**, 20 to 90 °C	Curve base temperature in Nighttime mode (Circuit B)	**OFF**
HCZP D C (1) (2)	**OFF**, 20 to 90 °C	Curve base temperature in Daytime mode (Circuit C)	**OFF**
HCZP N C (1) (2)	**OFF**, 20 to 90 °C	Curve base temperature in Nighttime mode (Circuit C)	**OFF**
PRIM.TEMP.DHW (1)	50 to 79 °C	Boiler temperature setting if producing domestic hot water	65 °C

(1) The parameter is only displayed if **INSTALLATION** is set to **EXTENDED**
(2) The parameter can be set to the heating curve by pressing key .

Installer level - Menu #PRIMARY INSTAL.P(1)				
Parameter	**Adjustment range**	**Description**	**Factory setting**	**Customer setting**
BURN.MIN.RUN	0 to 180 seconds	Setting the burner minimum operation time (In heating mode)	30 seconds	
TIMER GENE P.(1)	1 to 30 minutes	Maximum post-operation duration of the generator pump	4 minutes	
IN.BL(1)	**STOP HEAT**	Configuration of the PCU BL inlet If the contact is open, heating and DHW production are off. . Automatic restart when the contact closes. Opening the contact does not generate a message	**TOTAL STOP**	
	TOTAL STOP	Configuration of the PCU BL inlet If the contact is open, heating and DHW production are off. Automatic restart when the contact closes. Opening the contact generates a message		
	SAFETY MODE	Configuration of the PCU BL inlet If the contact is open, the boiler goes into safety lockout. The boiler needs to be reset to restart.		
ANALOG OUTL		Analogue outlet command		
	WILO_010V	0-10V Wilo control PCB		
	GRUND_010V	0-10V Grundfoss control PCB		
	PUMP PWM	Modulating pump		
	OUTP.FEEDB	Heat output feedback		
	THOT FEEDB.	Temperature feedback		
CCE :	**ON/OFF**	Leak proofing system	**NO**	
PSG :	**ON/OFF**	Check gas pressure switch before start-up	**NO**	
TIME DEL.HYDRAU.V.	0 to 255 seconds	Time delay after the command to open the hydraulic valve	0 seconds	
TIME DEL.FLUE G.VALV.	0 to 255 seconds	Time delay after the command to open the flue gas valve	0 seconds	
MIN PRESSURE	0 to 3 bar	Minimum pressure to generate a lock-out	0 bar	
BOIL.INERTIA	1 to 255 seconds	Characterisation of boiler inertia	10 seconds	
(1) The menu is displayed only if the **INSTALLATION** parameter is set to **EXTENDED**				

Installer level - Menu #SECONDARY INSTAL.P				
Parameter	**Adjustment range**	**Description**	**Factory setting**	**Customer setting**
BUILD. INERTIA (1)	0 (10 hours) to 10 (50 hours)	Characterisation of building's inertia: 0 for a building with low thermal inertia. 3 for a building with normal thermal inertia. 10 for a building with high thermal inertia. **Modification of the factory setting is only useful in exceptional cases.**	3 (22 hours)	
CIRC.CURVE A(2)	0 to 4	Heating curve of the circuit A ☞ **"CIRC. CURVE ..."**, page 58	1.5	
ANTICIP.A(1)	0.0 to 10.0	Activation and adjustment of the anticipation time ☞ **"ANTICIP.A**, **ANTICIP.B**, **ANTICIP.C** ", page 58	**NO**	
ROOM INFL. A (1)	0 to 10	Influence of room sensor A ☞ **"ROOM S.INFL"**, page 59	3	
CIRC.CURVE B(2)	0 to 4	Heating curve of the circuit B ☞ **"CIRC. CURVE ..."**, page 58	0.7	
ANTICIP.B(1)	0.0 to 10.0	Activation and adjustment of the anticipation time ☞ **"ANTICIP.A**, **ANTICIP.B**, **ANTICIP.C** ", page 58	**NO**	
ROOM INFL. B (1)	0 to 10	Influence of room sensor B ☞ **"ROOM S.INFL"**, page 59	3	
CIRC.CURVE C(2)	0 to 4	Heating curve of the circuit C ☞ **"CIRC. CURVE ..."**, page 58	0.7	
ANTICIP.C(1)	0.0 to 10.0	Activation and adjustment of the anticipation time ☞ **"ANTICIP.A**, **ANTICIP.B**, **ANTICIP.C** ", page 58	**NO**	
ROOM INFL. C (1)	0 to 10	Influence of room sensor C ☞ **"ROOM S.INFL"**, page 59	3	
SCREED DRYING	**NO, B, C, B+C**	Drying the floor ☞ **"SCREED DRYING"**, page 58	**NO**	
START DRYING TEMP(3)	20 to 50 °C	Screed drying start temperature	20 °C	
STOP DRYING TEMP(3)	20 to 50 °C	Screed drying stop temperature	20 °C	
NB DAYS DRYING(3)	0 to 99		0	

(1) The parameter is only displayed if **INSTALLATION** is set to **EXTENDED**
(2) The parameter can be set to the heating curve by pressing key
(3) The parameter is only displayed if **SCREED DRYING** is other than **OFF**
(4) The parameter is only displayed if **IN 0-10V** is set to **ON**.
(5) The parameter is only displayed if **P.DHW** is set to **PUMP**
(6) If a reversal valve is connected, DHW priority will always be total regardless of the setting.
(7) The parameter is only displayed if **LEG PROTEC** is other than **OFF**

Installer level - Menu #SECONDARY INSTAL.P				
Parameter	**Adjustment range**	**Description**	**Factory setting**	**Customer setting**
NIGHT (1)	**DEC.**	The lower temperature is maintained (Night mode) ☞ **"NIGHT"**, page 59	**DEC.**	
	STOP	The boiler is stopped (Night mode) ☞ **"NIGHT"**, page 59		
IN 0-10V	**OFF** / **TEMPERATURE** / **POWER %**	Activating the control at 0-10 V ☞ "Function 0-10 V", page 60	**OFF**	
VMIN/OFF 0-10V (1)(4)	0 to 10 V	Voltage corresponding to the instruction set minimum	0.5 V	
VMAX 0-10V (1)(4)	0 to 10 V	Voltage corresponding to the instruction set maximum	10 V	
CONS.MIN 0-10V (1)(4)	0 to 100	Minimum set point temperature or output	5	
CONS.MAX 0-10V (1)(4)	5 to 100	Maximum set point temperature or output	100	
BAND WIDTH (1)	4 to 16 K	Control unit bandwidth for the 3-way valves. Option of increasing the bandwidth if the valves are rapid or of reducing it if they are slow.	**12 K**	
BOIL/3WV SHIFT (1)	0 to 16 K	Minimum temperature difference between the boiler and the valves	**4 K**	
H. PUMP DELAY (1)	0 to 15 minutes	Timing of the shutdown of the heating pumps. The timing of heating pump shutdown prevents the boiler overheating.	**4 minutes**	
HW. PUMP DELAY (1)(5)	2 to 15 minutes	Timing of the shutdown of the domestic hot water pump. The timing of the domestic hot water load pump shutdown prevents the boiler and the heating circuits overheating (Only if a load pump is used).	**2 minutes**	
ADAPT	**ON**	Automatic adaptation of the heating curves for each circuit with a room sensor with an influence of >0.	**ON**	
	OFF	The heating curves can only be modified manually.		
PRIORITY DHW(6)	**TOTAL**	Interruption of pool heating and reheating during domestic hot water production.	**TOTAL**	
	SLIDING	Domestic hot water production and heating on the valve circuits if the available output is sufficient and the hydraulic connection allows.		
	NO	Heating and domestic hot water production in parallel if the hydraulic connection allows. ⚠ Risk of overheating in the direct circuit.		

(1) The parameter is only displayed if **INSTALLATION** is set to **EXTENDED**
(2) The parameter can be set to the heating curve by pressing key
(3) The parameter is only displayed if **SCREED DRYING** is other than **OFF**
(4) The parameter is only displayed if **IN 0-10V** is set to **ON**.
(5) The parameter is only displayed if **P.DHW** is set to **PUMP**
(6) If a reversal valve is connected, DHW priority will always be total regardless of the setting.
(7) The parameter is only displayed if **LEG PROTEC** is other than **OFF**

Installer level - Menu #SECONDARY INSTAL.P				
Parameter	**Adjustment range**	**Description**	**Factory setting**	**Customer setting**
LEG PROTEC		The anti legionella function acts to prevent the development of legionella in the dhw tank, these bacteria are responsible for legionellosis.	**OFF**	
	OFF	Anti-legionella function not activated		
	DAILY	The tank is overheated every day from 4:00 o'clock to 5:00 o'clock		
	WEEKLY	The tank is overheated every Saturday from 4:00 o'clock to 5:00 o'clock		
START.TIM.LEG.P(7)	00:00 to 23:30	Antilegionella start-up time	4:00 h (Increment: 30 minutes)	
DURAT.LEG.PROTECT(7)	60 to 360 min	Antilegionella running time	60 minutes (Increment: 30 minutes)	
OPTIM. DHW(5)	**OFF**	The function is deactivated	**OFF**	
	BOILER. T.	When, in heating mode, the boiler temperature exceeds **PRIM.TEMP.DHW** by +3°C and DHW tank needs are not met, the domestic hot water pump starts up		
	SYST.TEMP	When, in heating mode, the system temperature exceeds **PRIM.TEMP.DHW** by +3°C and DHW tank needs are not met, the domestic hot water pump starts up		
ON.DHW(5)	**OFF**	The function is deactivated	**OFF**	
	BOILER. T.	In DHW mode, the DHW load pump starts up only if the boiler temperature is higher than the **WATER TEMP.** set point + 5°C		
	SYST.TEMP	In DHW mode, the DHW load pump starts up only if the system temperature is higher than the **WATER TEMP.** set point + 5°C		

(1) The parameter is only displayed if **INSTALLATION** is set to **EXTENDED**
(2) The parameter can be set to the heating curve by pressing key
(3) The parameter is only displayed if **SCREED DRYING** is other than **OFF**
(4) The parameter is only displayed if **IN 0-10V** is set to **ON**.
(5) The parameter is only displayed if **P.DHW** is set to **PUMP**
(6) If a reversal valve is connected, DHW priority will always be total regardless of the setting.
(7) The parameter is only displayed if **LEG PROTEC** is other than **OFF**

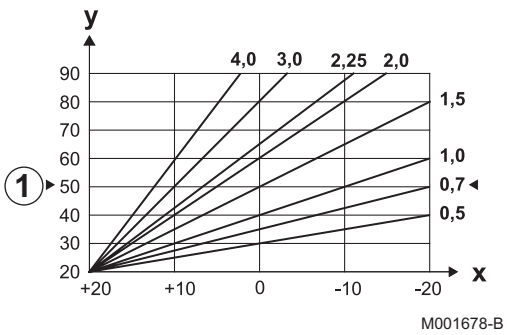
■ MAX.CIRC...

WARNING

If using underfloor heating, do not modify the factory setting (50 °C). To install this, please consult existing legislation.

- In the case of a direct circuit, connect a safety thermostat to the BL contact.
- In the case of a 3-way valve circuit (B or C), connect a safety thermostat to the TS contact.

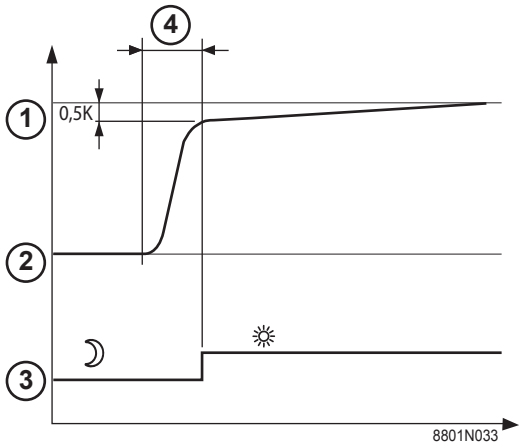
■ CIRC. CURVE ...



Heating curve circuit A, B or C

x	Outside temperature (°C)
y	Water flow temperature (°C)
①	Maximum temperature of the circuit B - C

■ ANTICIP.A, ANTICIP.B, ANTICIP.C



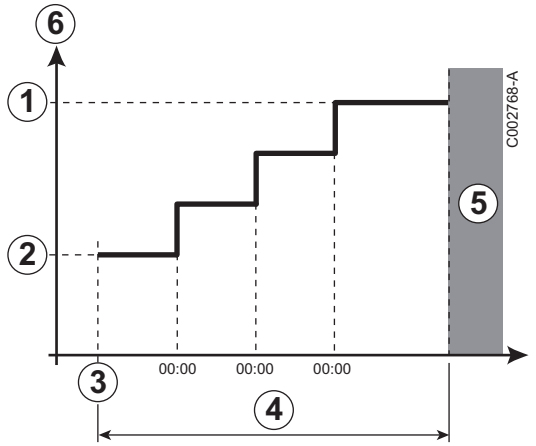
①	Room temperature instruction - Comfort
②	Room temperature instruction - Low
③	Time schedule
④	Anticipation time = Accelerated reheating phase

The anticipation function calculates the heating restart time to reach the desired room temperature less 0.5 K at the time programmed for switching to comfort mode.
The start time of the timed programmed corresponds to the end of the accelerated reheating phase.
The function is activated by setting a different **OFF** value.
The value set corresponds to the time considered necessary to return the installation to the required temperature (outside temperature 0°C), starting from a residual room temperature corresponding to the low nocturnal instruction.
Anticipation is optimised if a room sensor is connected.
The regulator will automatically fine set the anticipation time.

This function is dependent on the surplus output available in the installation.

■ SCREED DRYING

Used to force a constant flow temperature or a train to accelerate screed drying on underfloor heating.
The setting for these temperatures must follow the screed-layer's recommendations.
The activation of this parameter (setting other than **OFF**) forces the permanent display of **SCREED DRYING** and deactivates all other functions on the control unit.
When floor drying is active on a circuit, all other circuits (e.g. DHW) are shut down. The use of this function is only possible on circuits B and C.



① **STOP DRYING TEMP**

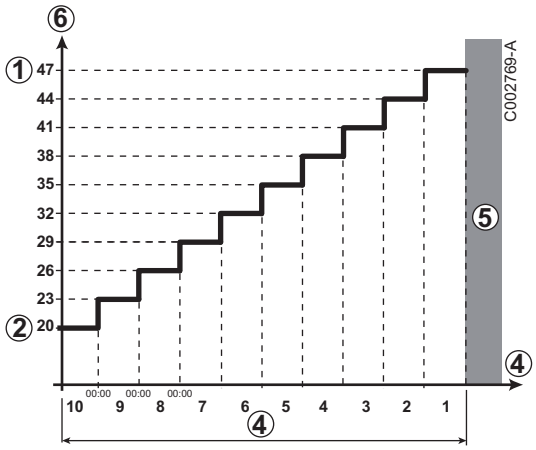
② **START DRYING TEMP**

③ Today

④ **NB DAYS DRYING**

⑤ Normal regulation (End of drying)

⑥ Heating temperature setting (°C)



For example

① **STOP DRYING TEMP**: **47 °C**

② **START DRYING TEMP**: **20 °C**

④ **NB DAYS DRYING**

⑤ Normal regulation (End of drying)

⑥ Heating temperature setting (°C)

Every day at midnight (00:00): the set point (**START DRYING TEMP**) is recalculated and the remaining number of days (**NB DAYS DRYING**) is decremented.

■ ROOM S.INFL

Used to adjust the influence of the room sensor on the water temperature for the circuit concerned.

0	No influence (remote control fitted in a location with no influence)
1	Slight influence
3	Average influence (recommended)
10	Room thermostat type operation

■ NIGHT

This parameter is displayed if at least one circuit does not include a room sensor.

For circuits without a room sensor:

- **NIGHT :DEC.** (Reduced): The reduced temperature is maintained during reduced periods. The circuit pump operates constantly.
- **NIGHT :STOP** (Stop): Heating is shut down during reduced periods. When installation antifreeze is active, the reduced temperature is maintained during reduced periods.

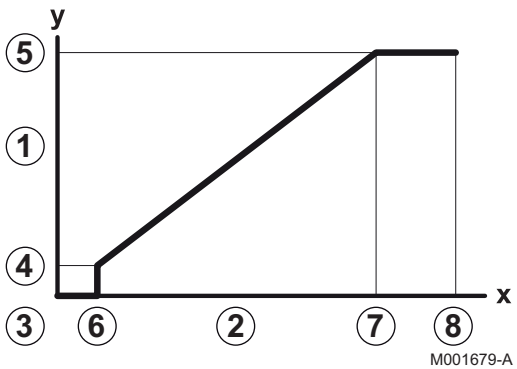
For circuits with a room sensor:

- When the room temperature is lower than the room sensor set point: The reduced temperature is maintained during reduced periods. The circuit pump operates constantly.

- When the room temperature is higher than the room sensor set point: Heating is shut down during reduced periods. When installation antifreeze is active, the reduced temperature is maintained during reduced periods.

Function 0-10 V

This function controls the boiler using an external system that includes a 0-10 V output connected to the 0-10 V input. This command imposes a temperature or output instruction on the boiler. It is necessary to ensure that the **BOILER MAX** parameter is higher than **CONS.MAX 0-10V** if the command is on temperature.

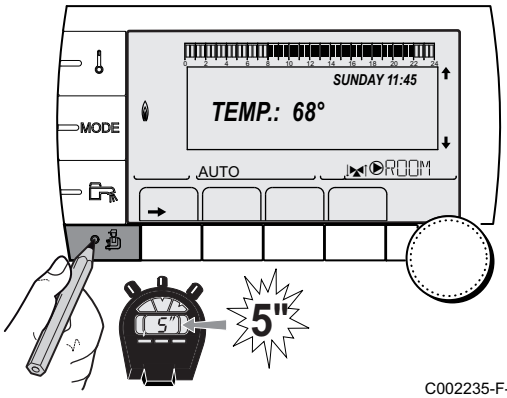


M001679-A

1	Flow set point temperature (°C) or output (%)
2	Voltage at input (V) - DC
3	0 V
4	**CONS.MIN 0-10V**
5	**CONS.MAX 0-10V**
6	**VMIN/OFF 0-10V**
7	**VMAX 0-10V**
8	10 V
x	Voltage at input
y	Boiler temperature or sliding output

If the input voltage is less than **VMIN/OFF 0-10V**, the boiler is off. The boiler temperature setting corresponds strictly to the 0-10 V input. The secondary boiler circuits continue to operate but have no impact on the water temperature in the boiler. If using the 0-10 V input and a secondary boiler circuit, the external regulator providing this 0-10 V power supply must always request a temperature at least equal to the needs of the secondary circuit.

5.6.4. Configuring the network



C002235-F-04

1. Access the installer level: Press key for around 5 seconds.
2. Select the menu **#NETWORK**.

- Turn the rotary button to scroll through the menus or modify a value.
- Press the rotary button to access the menu selected or confirm a value modification.

For a detailed explanation of menu browsing, refer to the chapter: "Browsing in the menus", page 31

3. To set the following parameters:

Installer level - Menu #NETWORK(1)				
Parameter	**Adjustment range**	**Description**	**Factory setting**	**Customer setting**
CASCADE:	**ON** / **NO**	**ON**: System in cascade	**NO**	
VM NETWORK		Specific menu: Enlist VMs in cascade mode (See following chapter: "Connect VMs only in cascade")		
MASTER CONTROLLER (2)	**ON** / **NO**	Configure this control system as master on the bus	**ON**	
SYSTEM NETWORK (3)		Specific menu: Enlist generators or VMs in cascade mode (See following chapter: "Connecting appliances in cascade")		
FUNCT (3)	**CLASSIC**	Operation in cascade: Successive triggering of the various boilers in the cascade according to requirements	**CLASSIC**	
	PARALLEL	Functioning in parallel cascade: If the outside temperature is lower than the value **PARALLEL CASC.**, all of the boilers are started up at the same time		
PARALLEL CASC. (4)	-10 to 20 °C	Outside temperature triggering all stages in parallel mode	10 °C	
TIMER GENE P. CASC(2)	0 to 30 min	Minimum duration of post-operation of the generator pump	0 mn	
INTER STAGE TIMER (2)	1 to 30 min	Time delay for starting up or shutting down generators.	4 mn	
SLAVE NUMBER (5)	2 to 10	Set the network address of the secondary generator	2	

(1) The menu is displayed only if the **INSTALLATION** parameter is set to **EXTENDED**
(2) The parameter is only displayed if **CASCADE:** is set to **ON**
(3) The parameter is only displayed if **MASTER CONTROLLER** is set to **ON**
(4) The parameter is only displayed if **FUNCT** is set to **PARALLEL**
(5) The parameter is only displayed if **MASTER CONTROLLER** is set to **OFF**

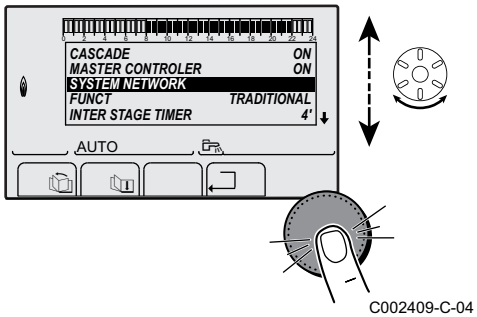
User level - Menu #SETTING				
Parameter	**Adjustment range**	**Description**	**Factory setting**	**Customer setting**
PERMUT(1)	**AUTO** / 1 ... 10	This parameter is used to set the master boiler. ▸ **AUTO**: The master boiler switches automatically every 7 days ▸ 1 ... 10: The master boiler is always the one defined by this value	**AUTO**	

(1) The parameter is only displayed if **CASCADE:** is on **ON** and **MASTER CONTROLLER** on **ON**

■ Connecting appliances in cascade

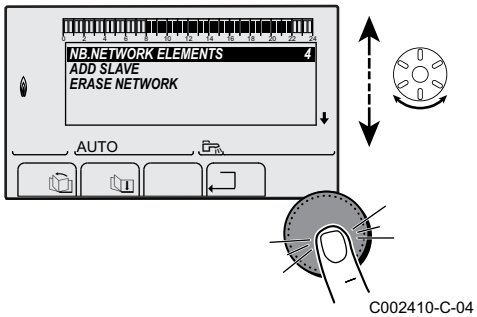
It is possible, in a cascade configuration, to enlist generators and/or VM iSystem as slaves. Proceed as follows:

1. Set parameter **CASCADE:** to **ON**.



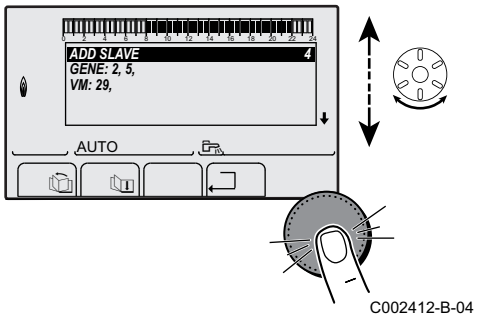
C002409-C-04

2. Select **SYSTEM NETWORK** and press the rotary button to go to the specific menu.



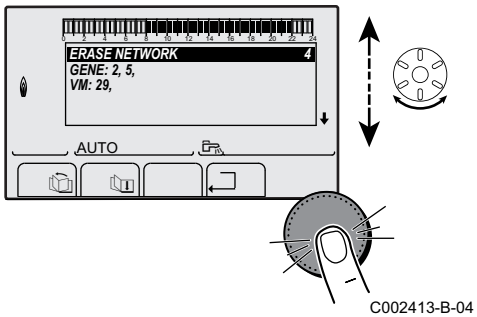
C002410-C-04

3. To add a slave appliance to the network, select **ADD SLAVE**.



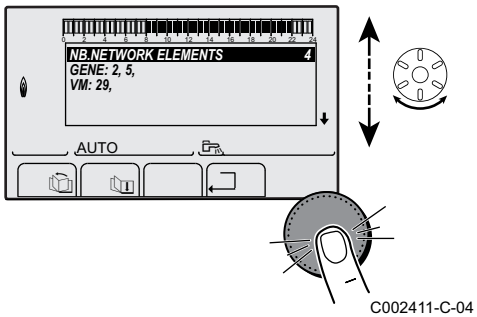
C002412-B-04

4. The screen displayed allows you to choose numbers for the slave boilers to be added to the network. Numbers 2 to 10 are dedicated to the generators and numbers 20 to 39 to the VM iSystem. Turn the rotary button to scroll through the numbers and press to confirm the number chosen. Press ⮐ to go back to the previous list.
5. To remove a slave appliance from the network, select **ERASE NETWORK**.



C002413-B-04

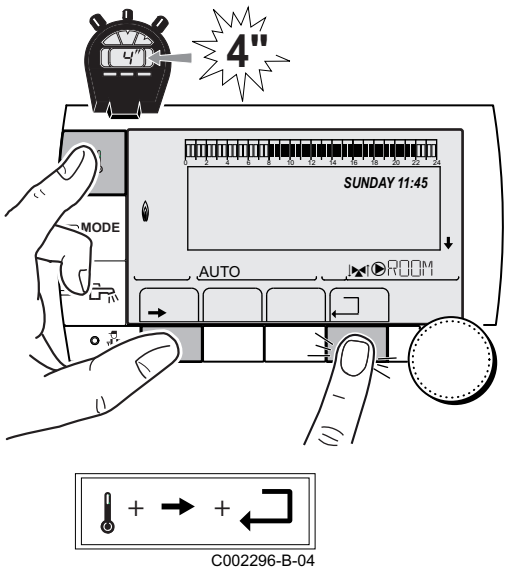
6. The screen displayed allows you to choose the numbers of the slave boilers to be removed from the network. Turn the rotary button to scroll through the numbers and press to remove the number chosen. Press ⮐ to go back to the previous list.



C002411-C-04

7. Select **NB. ELEMENTS.NETWORK**. This screen summarises the elements in the network recognised by the system. Press ⮐ to go back to the previous list.

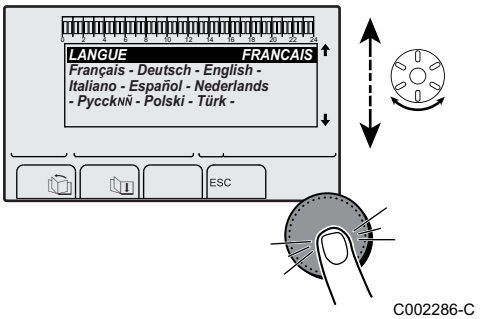
5.6.5. Return to the factory settings



To reset the appliance, proceed as follows:

1. Press key , → and ⏎ simultaneously for 4 seconds. The menu **#RESET** is displayed.
2. To set the following parameters:

Menu #RESET			
Choice of generator	**Parameter**		**Description**
GENERATOR	**RESET**	**TOTAL**	Performs a TOTAL RESET of all parameters
		EXCEPT PROG.	Performs a parameter RESET but retains the timer programmes
		PROG.	Performs a RESET on the timer programmes but retains the parameters
		SENSOR SCU	Performs a RESET of the generator sensors connected
		ROOM SENSOR	Performs a RESET of the room sensors connected

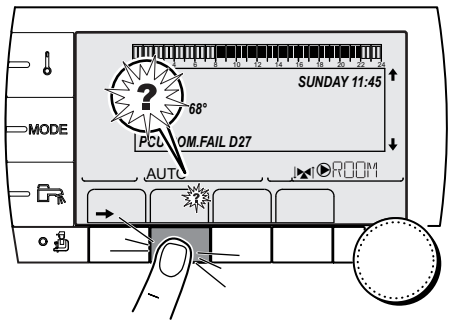


After reset (**TOTAL RESET** and **RESET EXCEPT PROG.**), the control system goes back to the display of the language choice after a few seconds.

1. Select the desired language by turning the rotary button.
2. To confirm, press the rotary button.

6 Maintenance

6.1 General instructions for the user



C002302-D-04

The boiler displays a message whenever maintenance is necessary.

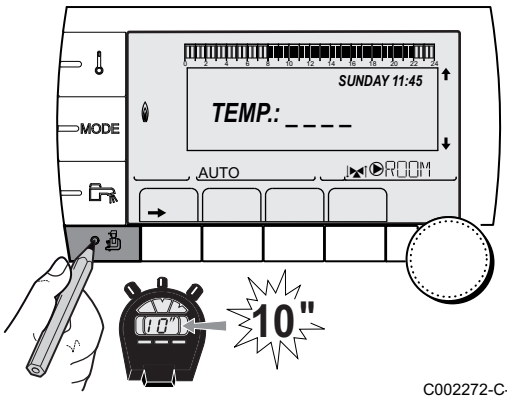
1. When the message, **REVISION**, is displayed, press **?** to display the installer's telephone number.
2. Contact the fitter.
3. To carry out inspections and maintenance required by a qualified professional.

6.2 Chimney sweep instructions

1. Press the key.
2. Check the combustion each time the flues are swept.
   Refer to the manual delivered with the boiler.
3. To go back to the main display, press key ⮌ 2 times.

Menu #EMISSION MEASUREMENTS				
Generator	**Function available**	**Description**	**Values displayed**	
Generator name	**AUTO**	normal operation	**BOILER TEMP.** **CURRENT** **WIND SPEED** **BACK TEMP**	°C µA rpm °C
	PMIN	Operating at minimum output	**BOILER TEMP.** **CURRENT** **WIND SPEED** **BACK TEMP**	°C µA rpm °C
	PMAX	Operating at maximum output	**BOILER TEMP.** **CURRENT** **WIND SPEED** **BACK TEMP**	°C µA rpm °C

6.3 Customising maintenance



C002272-C-04

6.3.1. Maintenance message

The boiler incorporates a function that can be used to display a maintenance message. To set the parameters for this function, proceed as follows:

1. Access the "After Sales" level: Hold down the key until **#PARAMETERS** is displayed.
2. Select the menu **#REVISION**.

- Turn the rotary button to scroll through the menus or modify a value.
- Press the rotary button to access the menu selected or confirm a value modification.

For a detailed explanation of menu browsing, refer to the chapter: "Browsing in the menus", page 31

3. To set the following parameters:

After Sales level - Menu #REVISION		
Parameter	**Adjustment range**	**Description**
TYPE	**NO**	Factory setting No message indicating that maintenance is necessary
	MANU	Recommended setting Signals that maintenance is necessary on the date selected. Set the date using the parameters below.
	AUTO	⚠ Not applicable. Do not select this setting.
REVISION HOUR(1)	0 to 23	Time at which the **REVISION** display appears
REV. YEAR(1)	2008 to 2099	Year in which the **REVISION** display appears
REVIS. MONTH(1)	1 to 12	Month in which the **REVISION** display appears
REVISION DATE(1)	1 to 31	Day on which the **REVISION** display appears
(1) The parameter is only displayed if **MANU** is configured.		

Clearing the maintenance message:

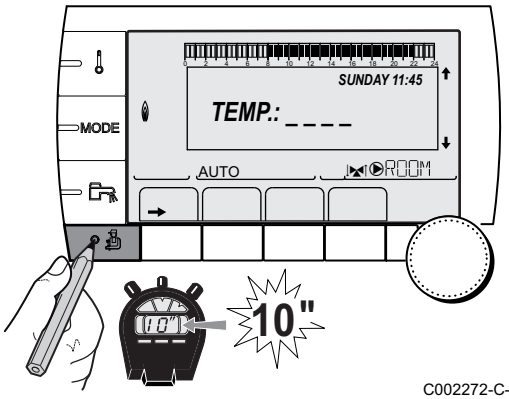
After carrying out the maintenance operations, modify the date in the **#REVISION** menu to clear the message.

In the event of maintenance before the maintenance message is displayed:

After carrying out early maintenance operations, it is necessary to set a new date in the **#REVISION** menu.

6.3.2. Contact details of the professional for After Sales Support

In order to assist the user if an error or service message is displayed, it is possible to provide the contact details of the professional to be contacted. To input the professional's contact details, proceed as follows:



C002272-C-04

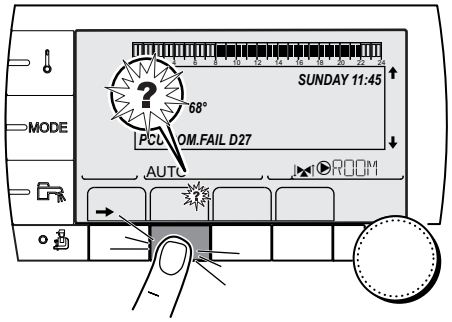
1. Access the "After Sales" level: Hold down the key until **#PARAMETERS** is displayed.
2. Select the menu **#SUPPORT**.

- Turn the rotary button to scroll through the menus or modify a value.
- Press the rotary button to access the menu selected or confirm a value modification.

For a detailed explanation of menu browsing, refer to the chapter: "Browsing in the menus", page 31

3. To set the following parameters:

After Sales level - Menu #SUPPORT	
Parameter	**Description**
NAME	Input the installer's name
TELEPHONE NUM.	Input the installer's telephone number



C002302-D-04

When the message **REVISION** is displayed, press **?** to display the professional's telephone number.

7 Troubleshooting

7.1 Anti-hunting

When the boiler is in Anti-short-cycle operating mode, the symbol **?** flashes.

1. Press the "?" key.
   The message **Operation assured when the restart temperature will be reached** is displayed.

This message is not an error message but an item of information.

7.2 Messages (Code type Bxx or Mxx)

In the case of failure, the control panel displays a message and a corresponding code.

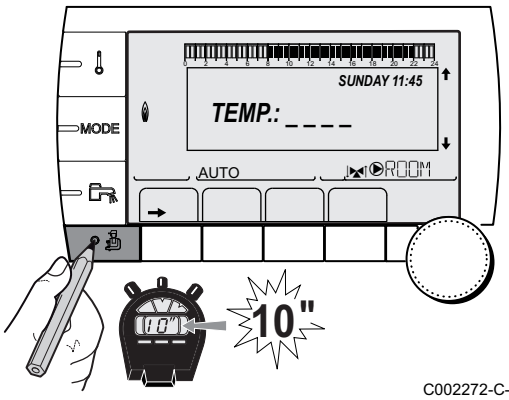
1. Make a note of the code displayed.
   The code is important for the correct and rapid diagnosis of the type of failure and for any technical assistance that may be needed.
2. Switch the boiler off and switch back on.
   The boiler starts up again automatically when the reason for the blocking has been removed.
3. If the code is displayed again, correct the problem by following the instructions in the table below:

Code	Messages	Description	Checking / solution
B00	**BL.CRC.PSU**	The PSU PCB is incorrectly configured	Parameter error on the PSU PCB ▸ Set the type of generator again in the menu **#CONFIGURATION** (Refer to the original rating plate)
B01	**BL.MAX BOILER**	Maximum flow temperature exceeded	The water flow in the installation is insufficient ▸ Check the circulation (direction, pump, valves)
B02	**BL.HEATING SPEED**	Maximum increase of the flow temperature has been exceeded	The water flow in the installation is insufficient ▸ Check the circulation (direction, pump, valves) ▸ Check the water pressure ▸ Check the cleanliness of the heat exchanger
			Sensor error ▸ Check that the sensors are operating correctly ▸ Check whether the boiler sensor has been correctly fitted
B03	**BL.MAX EXCHAN**	Maximum heat exchanger temperature exceeded	The water flow in the installation is insufficient ▸ Check the circulation (direction, pump, valves)

Code	Messages	Description	Checking / solution
B04	**BL.DERIVE EXCH**	Maximum heat exchanger temperature increase has been exceeded	The water flow in the installation is insufficient ▸ Check the circulation (direction, pump, valves) ▸ Check the water pressure ▸ Check the cleanliness of the heat exchanger
			Sensor error ▸ Check that the sensors are operating correctly ▸ Check whether the boiler sensor has been correctly fitted
B05	**BL.DT EXC.BACK**	The maximum difference between the exchanger temperature and the return temperature has been exceeded	The water flow in the installation is insufficient ▸ Check the circulation (direction, pump, valves) ▸ Check the water pressure ▸ Check the cleanliness of the heat exchanger
			Sensor error ▸ Check that the sensors are operating correctly ▸ Check whether the boiler sensor has been correctly fitted
B06	**BL.DT BOI.EXC.**	The maximum difference between the boiler temperature and the exchanger temperature has been exceeded	The water flow in the installation is insufficient ▸ Check the circulation (direction, pump, valves) ▸ Check the water pressure ▸ Check the cleanliness of the heat exchanger
			Sensor error ▸ Check that the sensors are operating correctly ▸ Check whether the boiler sensor has been correctly fitted
B07	**BL.DT OUTL RET.**	Maximum difference between the flow and return temperature exceeded	The water flow in the installation is insufficient ▸ Check the circulation (direction, pump, valves) ▸ Check the water pressure ▸ Check the cleanliness of the heat exchanger
			Sensor error ▸ Check that the sensors are operating correctly ▸ Check whether the boiler sensor has been correctly fitted
B08	**BL.RL OPEN**	The **RL** inlet on the PCU PCB terminal block is open	Parameter error ▸ Set the type of generator again in the menu **#CONFIGURATION** (Refer to the original rating plate)
			Bad connection ▸ Check the wiring
B09	**BL.INV. L/N**	Set the type of generator again in the menu **#CONFIGURATION** (Refer to the original rating plate)	
B10 **B11**	**BL.BL INPUT OPEN**	The **BL** inlet on the PCU PCB terminal block is open	The contact connected to the **BL** inlet is open ▸ Check the contact on the **BL** inlet
			Parameter error ▸ Check the parameter **IN.BL**
			Bad connection ▸ Check the wiring
B13	**BL.COM PCU-D4**	Communication error with the SCU PCB	Bad connection ▸ Check the wiring
			SCU PCB not installed in the boiler ▸ Install an SCU PCB
B14	**BL.WATER MIS.**	The water pressure is lower than 0,8 bar	Not enough water in the circuit ▸ Top up the installation with water

Code	Messages	Description	Checking / solution
B15	**BL.GAS PRESS**	Gas pressure too low	Incorrect setting of the gas pressure switch on the SCU PCB ▸ Check that the gas valve is fully opened ▸ Checking the gas supply pressure ▸ Check whether the gas pressure control system has been correctly fitted ▸ Replace the gas pressure control system if need be
B16	**BL.BAD SU**	The SU PCB is not recognised	Wrong SU PCB for this boiler ▸ Replace the SU PCB
B17	**BL.PCU ERROR**	The parameters saved on the PCU PCB are impaired	Parameter error on the PCU PCB ▸ Replace the PCU PCB
B18	**BL.BAD PSU**	The PSU PCB is not recognised	Wrong PSU PCB for this boiler ▸ Replace the PSU PCB
B19	**BL.NO CONFIG**	The boiler has not been configured	The PSU PCB has been changed ▸ Set the type of generator again in the menu **#CONFIGURATION** (Refer to the original rating plate)
B21	**BL. COM SU**	Communication error between the PCU and SU PCBs	Bad connection ▸ Check that the SU PCB has been correctly put in place on the PCU PCB ▸ Replace the SU PCB
B22	**BL.FLAME LOS**	No flame during operation	No ionization current ▸ Purge the gas supply to remove air ▸ Check that the gas valve is fully opened ▸ Check the supply pressure ▸ Check the operation and setting of the gas valve unit ▸ Check that the air inlet and flue gas discharge flues are not blocked ▸ Check that there is no recirculation of flue gases
B25	**BL.SU ERROR**	Internal error on the SU PCB	▸ Replace the SU PCB
M04	**REVISION**	A service is required	The date programmed for the service has been reached ▸ Carry out maintenance on the boiler ▸ To clear the inspection, programme another date in the menu **#REVISION** or set the parameter **REVISION TYPE** to **OFF**
M05	**REVISION A**	An A, B or C service is required	The date programmed for the service has been reached ▸ Carry out maintenance on the boiler ▸ To clear the inspection, press key ☞
M06	**REVISION B**		
M07	**REVISION C**		
M20	**DISGAS**	A boiler vent cycle is underway	Switching the boiler on ▸ Wait 3 minutes
	FL.DRY.B XX DAYS	Floor drying is active **XX** DAYS = Number of days' floor drying remaining.	Floor drying is underway. Heating on the circuits not concerned is shut down. ▸ Wait for the number of days shown to change to 0 ▸ Set the parameter **SCREED DRYING** to **OFF**
	FL.DRY.C XX DAYS		
	FL.DRY.B+C XX DAYS		
M23	**CHANGE OUTSI.S**	The outside temperature sensor is defective.	Change the outside radio temperature sensor.
	STOP N XX	The shutdown is active **XX** = Number of the active shutdown	A shutdown is underway. The circuits selected for this stop are in Antifreeze mode during the period chosen. ▸ Wait until the end date has been passed ▸ Set the parameter **STOP NXX** to **OFF**

7.3 Message history



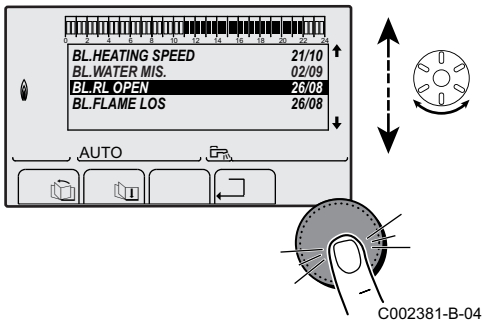
C002272-C-04

The menu (#MESSAGE HISTORIC) is used to consult the last 10 messages displayed by the control panel.

1. Access the "After Sales" level: Hold down the key until **#PARAMETERS** is displayed.
2. Select the menu (#MESSAGE HISTORIC).

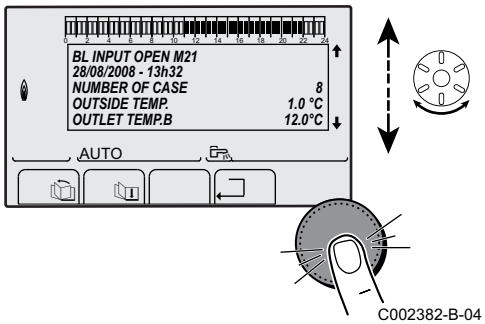
- Turn the rotary button to scroll through the menus or modify a value.
- Press the rotary button to access the menu selected or confirm a value modification.

For a detailed explanation of menu browsing, refer to the chapter: "Browsing in the menus", page 31



C002381-B-04

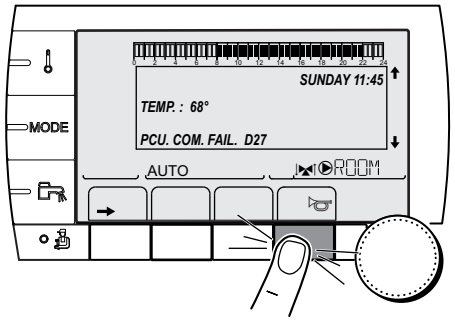
3. The list of the last 10 messages is displayed.



C002382-B-04

4. Select a message to consult the information pertaining to it.

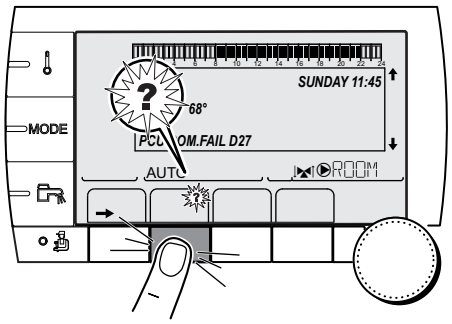
7.4 Faults (Code type Lxx or Dxx)



C002604-B-04

In the event of operational failure, the control panel flashes and displays an error message and a corresponding code.

1. Make a note of the code displayed.
   The code is important for the correct and rapid diagnosis of the type of failure and for any technical assistance that may be needed.
2. Press the key. If the code is displayed again, switch off the boiler and then switch it back on.



C002302-D-04

3. Press the **?** key. Follow the instructions displayed to solve the problem.
4. Consult the meaning of the codes in the table below:

Code	Faults	Cause of the fault	Description	Checking / solution
L00	**PSU FAIL**	PCU	PSU PCB not connected	Bad connection ▸ Check the wiring between the PCU and PSU PCBs
				PSU PCB faulty ▸ Replace the PSU PCB
L01	**PSU PARAM FAIL**	PCU	The safety parameters are incorrect	Bad connection ▸ Check the wiring between the PCU and PSU PCBs
				PSU PCB faulty ▸ Replace the PSU PCB
L02	**EXCHAN.S.FAIL.**	PCU	The exchanger sensor is short circuited	Bad connection ▸ Check the wiring between the PCU PCB and the sensor ▸ Check that the SU PCB is correctly in place ▸ Check that the sensor has been correctly fitted
				Sensor fault ▸ Check the Ohmic value of the sensor ▸ Replace the sensor if necessary
L03	**EXCHAN.S.FAIL.**	PCU	The exchanger sensor is on an open circuit	Bad connection ▸ Check the wiring between the PCU PCB and the sensor ▸ Check that the SU PCB is correctly in place ▸ Check that the sensor has been correctly fitted
				Sensor fault ▸ Check the Ohmic value of the sensor ▸ Replace the sensor if necessary

Code	Faults	Cause of the fault	Description	Checking / solution
L04	**DEF.OUTLET S.**	PCU	Temperature of heat exchanger too low	Bad connection ▸ Check the wiring between the PCU PCB and the sensor ▸ Check that the SU PCB is correctly in place ▸ Check that the sensor has been correctly fitted
				Sensor fault ▸ Check the Ohmic value of the sensor ▸ Replace the sensor if necessary
				No water circulation ▸ Vent the air in the heating system ▸ Check the circulation (direction, pump, valves) ▸ Check the water pressure ▸ Check the cleanliness of the heat exchanger
L05	**STB EXCHANGE**	PCU	Exchanger temperature too high	Bad connection ▸ Check the wiring between the PCU PCB and the sensor ▸ Check that the SU PCB is correctly in place ▸ Check that the sensor has been correctly fitted
				Sensor fault ▸ Check the Ohmic value of the sensor ▸ Replace the sensor if necessary
				No water circulation ▸ Vent the air in the heating system ▸ Check the circulation (direction, pump, valves) ▸ Check the water pressure ▸ Check the cleanliness of the heat exchanger
L06	**BACK S.FAILURE**	PCU	The return temperature sensor has short-circuited	Bad connection ▸ Check the wiring between the PCU PCB and the sensor ▸ Check that the SU PCB is correctly in place ▸ Check that the sensor has been correctly fitted
				Sensor fault ▸ Check the Ohmic value of the sensor ▸ Replace the sensor if necessary
L07	**BACK S.FAILURE**	PCU	The return temperature sensor is on an open circuit	Bad connection ▸ Check the wiring between the PCU PCB and the sensor ▸ Check that the SU PCB is correctly in place ▸ Check that the sensor has been correctly fitted
				Sensor fault ▸ Check the Ohmic value of the sensor ▸ Replace the sensor if necessary

Code	Faults	Cause of the fault	Description	Checking / solution
L08	**BACK S.FAILURE**	PCU	Return temperature too low	Bad connection ▸ Check the wiring between the PCU PCB and the sensor ▸ Check that the SU PCB is correctly in place ▸ Check that the sensor has been correctly fitted
				Sensor fault ▸ Check the Ohmic value of the sensor ▸ Replace the sensor if necessary
				No water circulation ▸ Vent the air in the heating system ▸ Check the circulation (direction, pump, valves) ▸ Check the water pressure ▸ Check the cleanliness of the heat exchanger
L09	**STB BACK**	PCU	Return temperature too high	Bad connection ▸ Check the wiring between the PCU PCB and the sensor ▸ Check that the SU PCB is correctly in place ▸ Check that the sensor has been correctly fitted
				Sensor fault ▸ Check the Ohmic value of the sensor ▸ Replace the sensor if necessary
				No water circulation ▸ Vent the air in the heating system ▸ Check the circulation (direction, pump, valves) ▸ Check the water pressure ▸ Check the cleanliness of the heat exchanger
L10	**DEF.DT.ECH.RET**	PCU	Difference insufficient between the exchanger temperature and the return temperature	Sensor fault ▸ Check the Ohmic value of the sensor ▸ Replace the sensor if necessary
				Bad connection ▸ Check that the sensor has been correctly fitted
				No water circulation ▸ Vent the air in the heating system ▸ Check the circulation (direction, pump, valves) ▸ Check the water pressure ▸ Check the cleanliness of the heat exchanger ▸ Check that the heating pump is operating correctly

Code	Faults	Cause of the fault	Description	Checking / solution
L11	**DEF.DT.RET.ECH**	PCU	Difference between the return temperature and the exchanger temperature too big	Sensor fault ▸ Check the Ohmic value of the sensor ▸ Replace the sensor if necessary
				Bad connection ▸ Check that the sensor has been correctly fitted
				No water circulation ▸ Vent the air in the heating system ▸ Check the circulation (direction, pump, valves) ▸ Check the water pressure ▸ Check the cleanliness of the heat exchanger ▸ Check that the heating pump is operating correctly
L12	**STB OPEN**	PCU	Maximum boiler temperature exceeded (STB thermostat maximum)	Bad connection ▸ Check the wiring between the PCU PCB and the STB ▸ Check that the SU PCB is correctly in place ▸ Check the electrical continuity of the STB ▸ Check whether the STB has been correctly fitted
				Sensor fault ▸ Replace the STB if necessary
				No water circulation ▸ Vent the air in the heating system ▸ Check the circulation (direction, pump, valves) ▸ Check the water pressure ▸ Check the cleanliness of the heat exchanger
L14	**BURNER FAILURE**	PCU	5 burner start-up failures	No ignition ▸ Check the wiring between the PCU PCB and the ignition transformer ▸ Check that the SU PCB is correctly in place ▸ Check the ionization/ignition electrode ▸ Check the earthing ▸ SU PCB faulty: Change the PCB
				Ignition arc, but no flame formation ▸ Vent the gas flues ▸ Check that the gas valve is fully opened ▸ Checking the gas supply pressure ▸ Check the operation and setting of the gas valve unit ▸ Check that the air inlet and flue gas discharge flues are not blocked ▸ Check the wiring on the gas valve unit ▸ SU PCB faulty: Change the PCB
				Presence of the flame but insufficient ionization (<3 µA) ▸ Check that the gas valve is fully opened ▸ Checking the gas supply pressure ▸ Check the ionization/ignition electrode ▸ Check the earthing ▸ Check the wiring on the ionization/ignition electrode

Code	Faults	Cause of the fault	Description	Checking / solution
L15	**CCE TEST FAIL**	PCU	The cyclical leak proofing kit (CCE) has detected a leak	Reset the box ▸ Check that the gas valve is fully opened ▸ Checking the gas supply pressure ▸ Check the gas valve and replace if necessary
L16	**PARASIT FLAME**	PCU	Detection of a parasite flame	Ionization current present when there should not be a flame Ignition transformer defective ▸ Check the ionization/ignition electrode
				Gas valve defective ▸ Check the gas valve and replace if necessary
				The burner remains very hot: CO_2 too high ▸ Set the CO_2
L17	**VALVE FAIL**	PCU	Problem on the gas valve	Bad connection ▸ Check the wiring between the PCU PCB and the gas valve ▸ Check that the SU PCB is correctly in place
				SU PCB faulty ▸ Inspect the SU PCB and replace it if need be
L32	**DEF.OUTLET S.**	PCU	The boiler flow sensor has short-circuited	Bad connection ▸ Check the wiring between the PCU PCB and the sensor ▸ Check that the SU PCB is correctly in place ▸ Check that the sensor has been correctly fitted
				Sensor fault ▸ Check the Ohmic value of the sensor ▸ Replace the sensor if necessary
L33	**DEF.OUTLET S.**	PCU	The boiler flow sensor is on an open circuit	Bad connection ▸ Check the wiring between the PCU PCB and the sensor ▸ Check that the SU PCB is correctly in place ▸ Check that the sensor has been correctly fitted
				Sensor fault ▸ Check the Ohmic value of the sensor ▸ Replace the sensor if necessary
L34	**FAN FAILURE**	PCU	The fan is not running at the right speed	Bad connection ▸ Check the wiring between the PCU PCB and the fan
				Fan defective ▸ Check for adequate draw on the chimney connection ▸ Replace the fan if need be
L35	**BACK>BOIL FAIL**	PCU	Flow and return reversed	Bad connection ▸ Check that the sensor has been correctly fitted
				Sensor fault ▸ Check the Ohmic value of the sensors ▸ Replace the sensor if necessary
				Water circulation direction reversed ▸ Check the circulation (direction, pump, valves)

Code	Faults	Cause of the fault	Description	Checking / solution
L36	**I-CURRENT FAIL**	PCU	The flame went out more than 5 times in 24 hours while the burner was operating	No ionization current ▸ Purge the gas supply to remove air ▸ Check that the gas valve is fully opened ▸ Checking the gas supply pressure ▸ Check the operation and setting of the gas valve unit ▸ Check that the air inlet and flue gas discharge flues are not blocked ▸ Check that there is no recirculation of flue gases
L37	**SU COM.FAIL**	PCU	Communication failure with the SU PCB	Bad connection ▸ Check whether the SU PCB has been correctly fitted into the connector on the PCU PCB ▸ Change the SU PCB
L38	**PCU COM.FAIL**	PCU	Communication failure between the PCU and SCU PCBs	Bad connection ▸ Check the wiring between the PCU and SCU PCBs ▸ Run an **AUTODETECTION** in the menu **#CONFIGURATION** SCU PCB not connected or faulty ▸ Replace the SCU PCB
L39	**BL OPEN FAIL**	PCU	The **BL** inlet opened for a short time	Bad connection ▸ Check the wiring External cause ▸ Check the device connected to the **BL** contact Parameter incorrectly set ▸ Check the parameter **IN.BL**
D03 **D04**	**OUTL S.B FAIL.** **OUTL S.C FAIL.**	SCU	Circuit B flow sensor fault Circuit C flow sensor fault Remarks: The circuit pump is running. The 3-way valve motor on the circuit is no longer powered and can be adjusted manually.	Bad connection ▸ Check whether the sensor is connected: ☞ See chapter: "Deletion of sensors from the memory in the PCB", page 79 ▸ Check the link and the connectors ▸ Check that the sensor has been correctly fitted Sensor fault ▸ Check the Ohmic value of the sensor ▸ Replace the sensor if necessary
D05	**OUTSI.S.FAIL.**	SCU	Outside temperature sensor fault Remarks: The boiler operates on **BOILER MAX** temperature. The valve setting is no longer ensured but monitoring the maximum temperature of the circuit after the valve is ensured. Valves may be manually operated. Reheating the domestic hot water remains ensured.	Bad connection ▸ Check whether the sensor is connected: ☞ See chapter: "Deletion of sensors from the memory in the PCB", page 79 ▸ Check the link and the connectors ▸ Check that the sensor has been correctly fitted Sensor fault ▸ Check the Ohmic value of the sensor ▸ Replace the sensor if necessary

Code	Faults	Cause of the fault	Description	Checking / solution
D07	**AUX.SENS.FAIL.**	SCU	Auxiliary sensor fault	Bad connection ▸ Check whether the sensor is connected: See chapter: "Deletion of sensors from the memory in the PCB", page 79 ▸ Check the link and the connectors ▸ Check that the sensor has been correctly fitted
				Sensor fault ▸ Check the Ohmic value of the sensor ▸ Replace the sensor if necessary
D09	**DHW S.FAILURE**	SCU	Domestic hot water sensor fault Remarks: Heating of domestic hot water is no longer ensured. The load pump operates. The load temperature of the dhw tank is the same as the boiler.	Bad connection ▸ Check whether the sensor is connected: See chapter: "Deletion of sensors from the memory in the PCB", page 79 ▸ Check the link and the connectors ▸ Check that the sensor has been correctly fitted
				Sensor fault ▸ Check the Ohmic value of the sensor ▸ Replace the sensor if necessary
D11 **D12** **D13**	**ROOM S.A FAIL.** **ROOM S.B FAIL.** **ROOM S.C FAIL.**	SCU	A room temperature sensor fault B room temperature sensor fault C room temperature sensor fault Note: The circuit concerned operates without any influence from the room sensor.	Bad connection ▸ Check whether the sensor is connected: See chapter: "Deletion of sensors from the memory in the PCB", page 79 ▸ Check the link and the connectors ▸ Check that the sensor has been correctly fitted
				Sensor fault ▸ Check the Ohmic value of the sensor ▸ Replace the sensor if necessary
D14	**MC COM.FAIL**	SCU	Communication failure between the SCU PCB and the boiler radio module	Bad connection ▸ Check the link and the connectors
				Boiler module failure ▸ Change the boiler module
D15	**ST.TANK S.FAIL**	SCU	Storage tank sensor fault Note: The hot water storage tank reheating operation is no longer assured.	Bad connection ▸ Check whether the sensor is connected: See chapter: "Deletion of sensors from the memory in the PCB", page 79 ▸ Check the link and the connectors ▸ Check that the sensor has been correctly fitted
				Sensor fault ▸ Check the Ohmic value of the sensor ▸ Replace the sensor if necessary

Code	Faults	Cause of the fault	Description	Checking / solution
D16 **D16**	**SWIM.P.B. S.FAIL** **SWIM.P.C. S.FAIL**	SCU	Swimming pool sensor fault circuit B Swimming pool sensor fault circuit C Note: Swimming pool reheating is always done during the circuit's comfort period.	Bad connection ▸ Check whether the sensor is connected: See chapter: "Deletion of sensors from the memory in the PCB", page 79 ▸ Check the link and the connectors ▸ Check that the sensor has been correctly fitted
				Sensor fault ▸ Check the Ohmic value of the sensor ▸ Replace the sensor if necessary
D17	**DHW 2 S.FAIL**	SCU	Sensor fault tank 2	Bad connection ▸ Check whether the sensor is connected: See chapter: "Deletion of sensors from the memory in the PCB", page 79 ▸ Check the link and the connectors ▸ Check that the sensor has been correctly fitted
				Sensor fault ▸ Check the Ohmic value of the sensor ▸ Replace the sensor if necessary
D27	**PCU COM. FAIL**	SCU	Communication failure between the SCU and PCU PCBs ▸ Check the wiring between the SCU and PCU PCBs ▸ Check that the PCU PCB is powered up (green LED on or flashing) ▸ Change the PCU PCB	
D32	**5 RESET:ON/OFF**	SCU	5 resets done in less than an hour ▸ Switch the boiler off and switch back on	
D37	**TA-S SHORT-CIR**	SCU	The Titan Active System® is short-circuited ▸ Check that the connection cable between the SCU PCB and the anode is not short-circuited ▸ Check that the anode is not short-circuited Remarks: Domestic hot water production has stopped but can nonetheless be restarted using key . The tank is no longer protected. If a tank without Titan Active System® is connected to the boiler,check that the TAS simulation connector (delivered with package AD212) is fitted to the sensor card.	
D38	**TA-S DISCONNEC**	SCU	The Titan Active System® is on an open circuit ▸ Check that the connection cable between the SCU PCB and the anode is not severed ▸ Check that the anode is not broken Remarks: Domestic hot water production has stopped but can nonetheless be restarted using key . The tank is no longer protected. If a tank without Titan Active System® is connected to the boiler,check that the TAS simulation connector (delivered with package AD212) is fitted to the sensor card.	

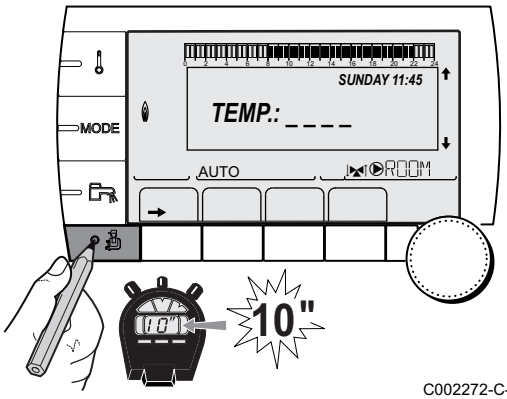
7.4.1. Deletion of sensors from the memory in the PCB

The configuration of the sensors is memorised by the SCU PCB. If a sensor fault appears whilst the corresponding sensor is not connected or has been voluntarily removed, please delete the sensor from the SCU PCB memory.

- Press key **?** repeatedly until **Do you want to delete this sensor?** is displayed.
- Select **YES** by turning the rotary button and press to confirm.

The outside temperature sensor cannot be deleted.

7.5 Failure history



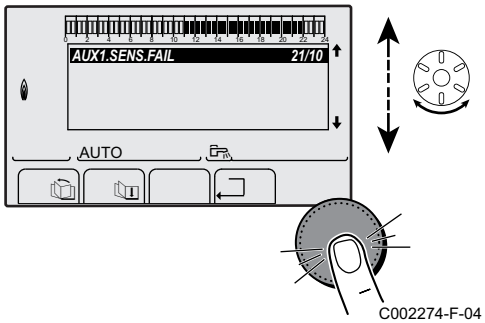
C002272-C-04

The menu **#DEFAULT HISTORIC** is used to consult the last 10 faults displayed by the control panel.

1. Access the "After Sales" level: Hold down the key until **#PARAMETERS** is displayed.
2. Select the menu **#DEFAULT HISTORIC**.

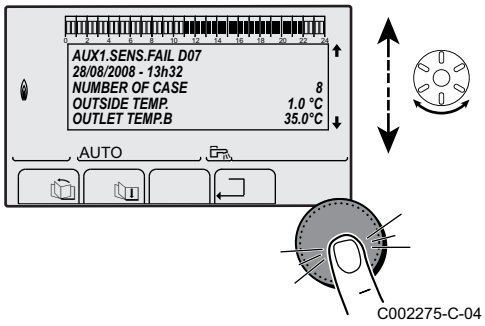
- Turn the rotary button to scroll through the menus or modify a value.
- Press the rotary button to access the menu selected or confirm a value modification.

For a detailed explanation of menu browsing, refer to the chapter: "Browsing in the menus", page 31



C002274-F-04

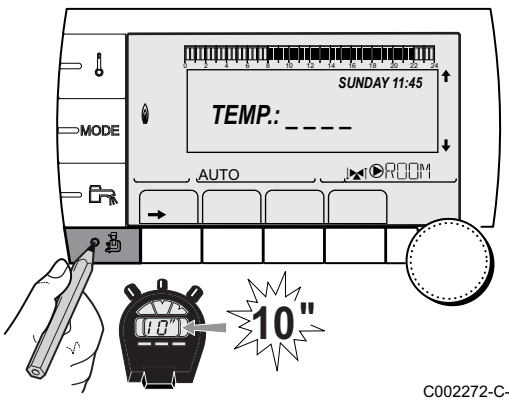
3. The list of the last 10 faults is displayed.



C002275-C-04

4. Select a fault to consult the information pertaining to it.

7.6 Parameter and input/output check (mode tests)



C002272-C-04

Use the following menus to target the cause of a malfunction.

1. Access the "After Sales" level: Hold down the key until **#PARAMETERS** is displayed.
2. Check the following parameters:

- Turn the rotary button to scroll through the menus or modify a value.
- Press the rotary button to access the menu selected or confirm a value modification.

For a detailed explanation of menu browsing, refer to the chapter: "Browsing in the menus", page 31

After Sales level - Menu #PARAMETERS	
Parameter	**Description**
PERMUT	Master boiler active
STAGE	Number of boilers requesting heating
NB.CASC.:	Number of boilers recognised in the cascade
NB. VM:	Number of DIEMATIC VM control systems recognised in the cascade
POWER %	Current output of the boiler
PERCENT PUMP	Modulating pump command
SPEED FAN (1)	Fan rotation speed
SETPOINT FAN	Fan rotation speed desired
MEAN OUTSIDE T	Average outside temperature
CALC.T. BOILER	Temperature calculated by the boiler
BURNER SETPOINT	Set point parameter of the burner
AVERAGE BOIL.T	Average temperature of the boiler flow sensor
BOILER. T. (1)	Measurement of the boiler flow sensor
BACK TEMP (1)	Temperature of the boiler return water
SYST.TEMP (1)	Temperature of the system flow water if multi-generator
SYST. CALC. T. (2)	System flow temperature calculated by the control system
CALCULATED T. A	Calculated temperature for circuit A
CALCULATED T. B (3)	Calculated temperature for circuit B
CALCULATED T. C (3)	Calculated temperature for circuit C
OUTLET TEMP. B (1) (3)	Temperature of the flow water in circuit B
SWIMMING P.T.B	Temperature of the swimming pool water sensor on circuit B
OUTLET TEMP. C (1) (3)	Temperature of the flow water in circuit C
SWIMMING P.T.C	Temperature of the swimming pool water sensor on circuit C
OUTSIDE TEMP. (1)	Outside temperature
ROOMTEMP. A (1)	Room temperature of circuit A
ROOMTEMP. B (1) (3)	Room temperature of circuit B
ROOMTEMP. C (1) (3)	Room temperature of circuit C

(1) The parameter can be displayed by pressing key .
(2) The parameter is only displayed if **CASCADE:** is set to **ON**
(3) The parameter is only displayed for the options, circuits or sensors actually connected

After Sales level - Menu #PARAMETERS	
Parameter	**Description**
WATER TEMP. (1)(3)	Water temperature in the DHW tank
IN 0-10V (1)(3)	Voltage at input 0-10 V
CURRENT (1)	Ionization current
PRESSURE (1)	Water pressure in the installation
STOR.TANK.TEMP (1) (3)	Water temperature in the storage tank
T.DHW BOTTOM (1)(3)	Water temperature in the bottom of the DHW tank
DHW A TEMP. (1)(3)	Water temperature in the second DHW tank connected to circuit A
TEMP.TANK AUX (1)(3)	Water temperature in the second DHW tank connected to the AUX circuit
KNOB A	Position of temperature setting button on room sensor A
KNOB B(3)	Position of temperature setting button on room sensor B
KNOB C(3)	Position of temperature setting button on room sensor C
OFFSET ADAP A	Parallel trigger calculated for circuit A
OFFSET ADAP B (3)	Parallel trigger calculated for circuit B
OFFSET ADAP C (3)	Parallel trigger calculated for circuit C
(1) The parameter can be displayed by pressing key .	
(2) The parameter is only displayed if **CASCADE:** is set to **ON**	
(3) The parameter is only displayed for the options, circuits or sensors actually connected	

After Sales level - Menu #TEST OUTPUTS		
Parameter	**Adjustment range**	**Description**
P. CIRC. A	**ON / NO**	Stop/start pump circuit A
P. CIRC. B (1)	**ON / NO**	Stop/start pump circuit B
P. CIRC. C (1)	**ON / NO**	Stop/start pump circuit C
HW. PUMP (1)	**ON / NO**	Stop/start domestic hot water pump
AUX.CIRC.	**ON / NO**	On/Off auxiliary outlet
3WV B (1)	**REST**	No command
	OPEN	Opening 3-way valve circuit B
	CLOSE	Closure 3-way valve circuit B
3WV C (1)	**REST**	No command
	OPEN	Opening 3-way valve circuit C
	CLOSE	Closure 3-way valve circuit C
TEL.OUTPUT	**ON / NO**	On/Off telephone relay outlet
(1) The parameter is only displayed for the options, circuits or sensors actually connected		

After Sales level - Menu #TEST INPUTS		
Parameter	**Status**	**Description**
PHONE REM.		Bridge on telephone input (1 = presence, 0 = absence)
FLAME		Flame presence test (1 = presence, 0 = absence)
GAS VALVE	**OPEN/CLOSE**	Opening the valve Closing the valve
FAILURE	**ON**	Fault display
	OFF	No fault
SEQUENCE		Control system sequence. See chapter: "Control system sequence", page 82
(1) The parameter is only displayed if **INSTALLATION** is set to **EXTENDED**		

After Sales level - Menu #TEST INPUTS		
Parameter	**Status**	**Description**
BOILER		Index of the generator in the system
TYPE		Generator type
R.CTRL A (1)	**ON**	Presence of a remote control A
	OFF	No remote control A
R.CTRL B (1)	**ON**	Presence of a remote control B
	OFF	No remote control B
R.CTRL C (1)	**ON**	Presence of a remote control C
	OFF	No remote control C
CALIBRA.CLOCK(1)		Clock calibration
(1) The parameter is only displayed if **INSTALLATION** is set to **EXTENDED**		

After Sales level - #INFORMATION menu	
Parameter	**Description**
S/N SCU	Serial number of the SCU board
CTRL	Software version of the SCU board
S/N PCU	Serial number of the PCU board
VER.ROM	Version of the PCU PCB programme
VERS.PARAM PCU	Version of the PCU PCB parameters
S/N SU	Serial number of the SU board
VERS.PARAM SU	Version of the SU PCB programme
VERS.PARAM PCU	Version of the SU PCB parameters
MC.VERSION (1)	Version of the boiler radio module programme
SOLAR VERS. (1)	Solar control system software version
CALIBRA.CLOCK(2)	Clock calibration
(1) The parameter is only displayed for the options, circuits or sensors actually connected (2) The parameter is only displayed if **INSTALLATION** is set to **EXTENDED**	

After Sales level - Menu #CONFIGURATION		
Parameter	**Adjustment range**	**Description**
MODE:	**MONO/ ALL.CIRC.**	To chose if the exemption made for one remote control applies to a single circuit (**MONO**) or if it must be transmitted to a group of circuits (**ALL.CIRC.**)
TYPE		Boiler type (Refer to the original rating plate)
AUTODETECTION	**OFF/ON**	System reset if error **L38** is displayed
TAS	**OFF/ON**	Activation of the Titan Active System® function

7.6.1. Control system sequence

Control system sequence			
Status		**Sub-status**	**Operation**
0	Rest	0	Rest
1	Boiler start (Heat demand)	1	Anti-short cycle activated
		2	Open isolating valve
		3	Start-up of the boiler pump
		4	Wait for the correct temperatures for burner start

Control system sequence			
Status		**Sub-status**	**Operation**
2	Burner start	10	Open gas valve (External)
		11	Fan start-up
		12	Opening of the flue gas flue damper
		13	Preventilation
		14	Awaiting closure of the RL contact (if the function is activated)
		15	Burner on switch request
		16	Leak proofing system test
		17	Pre-ignition
		18	Ignition
		19	Check flame presence
		20	Inter-ignition time delay
3	Boiler on heating service	30	Nominal internal set point
		31	Limited internal set point
		32	Output control
		33	Temperature protection gradient level 1 (Modulate down)
		34	Temperature protection gradient level 2 (Part load)
		35	Temperature protection gradient level 3 (Blockage)
		36	Modulate up for flame control
		37	Temperature stabilisation time
		38	Cold start
5	Burner stop	40	Burner shutdown request
		41	Post-ventilation
		42	Fan speed reduction
		43	Closure of the flue gas flue damper
		44	Stop fan
6	Switching off the boiler	60	Post-operation time delay on the boiler pump
		61	Stop boiler pump
		62	Close isolating valve
		63	Start anti short cycle
8	Stop	0	Awaiting burner start-up
		1	Anti-short cycle activated
9	Blockage	XX	Shutdown code XX
10	Blocking	0	Rest
16	Burner running to guarantee AF	30	Antifreeze protection
		31	Nominal internal set point
		32	Limited internal set point
		33	Temperature protection gradient level 1 (Modulate down)
		34	Temperature protection gradient level 2 (Part load)
		35	Temperature protection gradient level 3 (Blockage)
		36	Modulate up for flame control
		37	Temperature stabilisation time
		38	Cold start

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