

Regulation

IniControl For C 330 / C 630 ECO



C003108-A



**Installation, User
and Service
Manual**

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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, highlight 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 Liabilities

1.2.1. Manufacturer's liability

Our products are manufactured in compliance with the requirements of the various applicable European

Directives. They are therefore delivered with  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.

1.2.2. Installer's liability

The installer is responsible for the installation and commissioning 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.

1.2.3. 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.
- ▶ Ensure the Appliance is serviced in accordance with the manufacturer's instructions by a suitable qualified person.
- ▶ Keep the instruction manuals in good condition close to the appliance.

This appliance is not intended to be used by persons (including children) whose physical, 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.

If the mains power lead is damaged it must be replaced by the original manufacturer, the manufacturer's dealer or another competent person to prevent hazardous situations.

1.3 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 IniControl module
- ▶ Installation, use and maintenance manual for the control panel

4.1.2. Accessories

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

Control system options	
Description	package
BUS connection cable (length 12 m)	AD134
voice remote monitoring module	AD152
OpenTherm interface	AD287
Outside sensor	FM46
RX11 cable	AD124
Modulating room thermostat	AD265
Radio-controlled modulating room thermostat	AD266
Digital room thermostat	AD137
Wireless settable ambient thermostat	AD200
SCU-S05 PCB	
SCU-S03 PCB	

4.2 Installing the outside sensor

4.2.1. Choice of the location

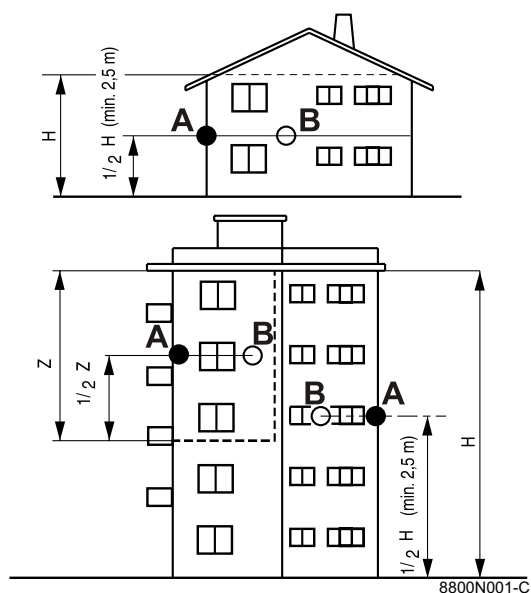
It is important to select a place that allows the sensor to measure the outside conditions correctly and effectively.

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

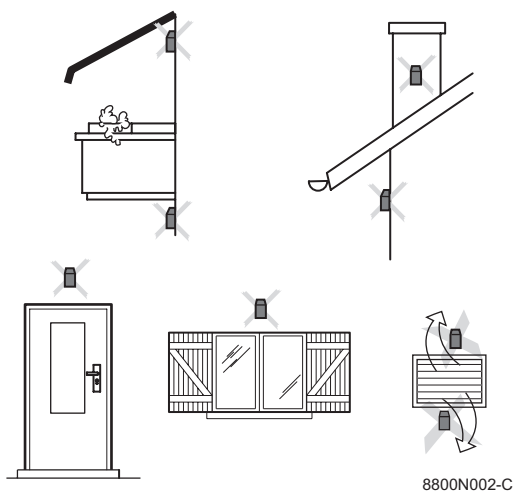
- ▶ protected from direct sunlight
- ▶ easy to access

- 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.)

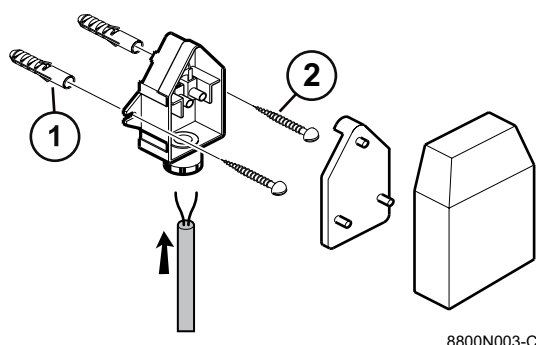


4.2.2. Connecting the outside sensor

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".

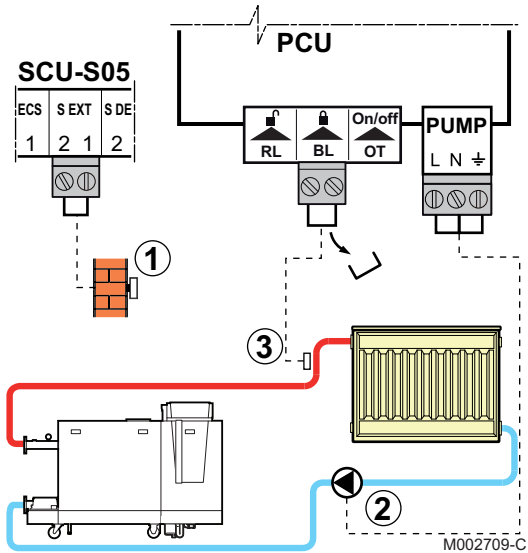


4.3 Fitting and connecting the control panel

☞ Refer to the boiler's installation and service manual.

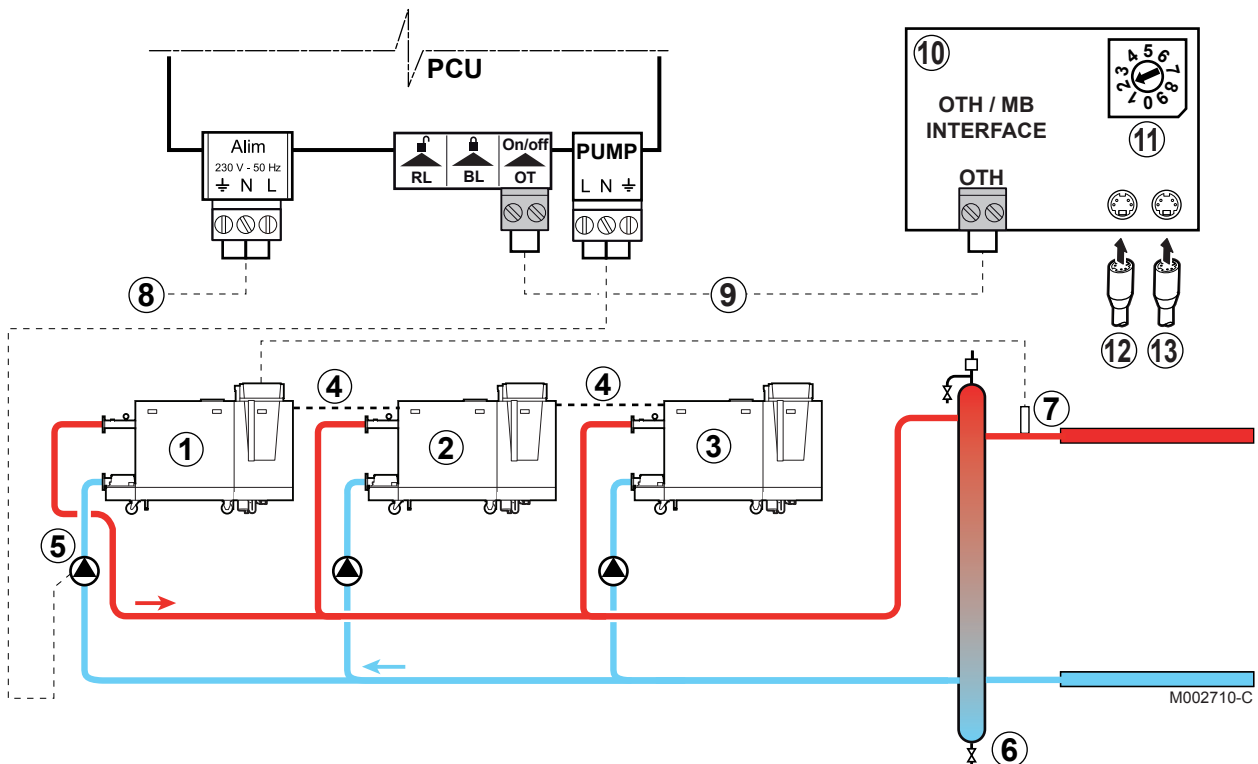
4.4 Electrical connections

4.4.1. Connecting a direct heating circuit



- ① Connect the outside temperature sensor.
 - **i** SCU-S05 PCB = Option
- ② Heating connection pump.
- ③ 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.

4.4.2. Connection in cascade (with OpenTherm AD287) option



- 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 Boiler power supply - 230 V
- ⑨ Connection cable linking the Opentherm from the PCU to the Opentherm on the interface
- ⑩ OpenTherm (AD287) interface board to be fitted in the boiler control panel
- ⑪ Encoding wheel used to set the addresses of the slave boilers. Set to 1 on boiler 2 - Set to 2 on boiler 3 - etc.
- ⑫ BUS cable to the master boiler
- ⑬ BUS cable to the slave boilers

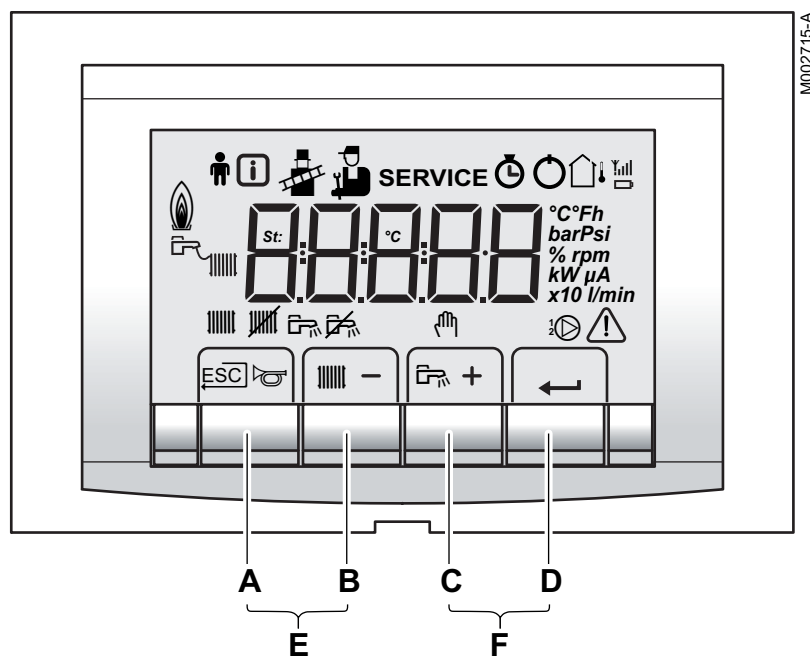
5 Commissioning

5.1 Control panel



For operation of the boiler **C 630 ECO**: Each module has its own instrument panel.

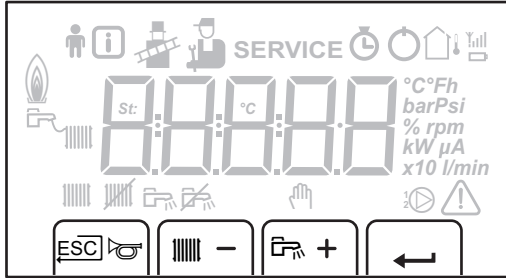
5.1.1. Description of the keys



- A** Return button , Escape or Manual reset
- B** Heating temperature button or **[-]**
- C** DHW temperature button or **[+]**
- D** [Enter] Key
- E** [Chimney-sweeping] keys
Press keys **A** and **B** simultaneously
- F** [Menu] keys
Press keys **C** and **D** simultaneously

5.1.2. Description of the display

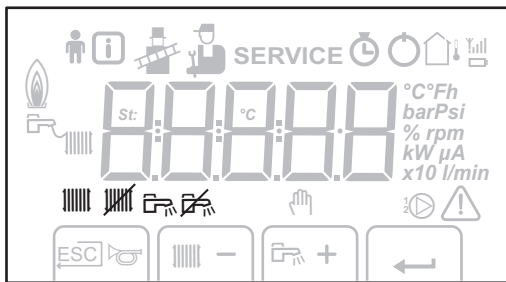
■ Key functions



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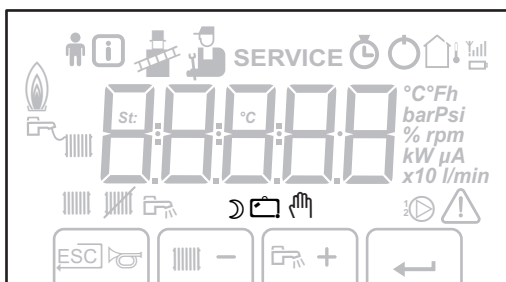
- Back to the previous level without saving the modifications made
- Manual reset
- Central heating function:
Access to the max. heating temperature parameter.
- To reduce a value
- DHW function:
Access to sanitary hot water temperature parameter.
- To increase a value
- Access the selected menu or confirm a value modification

■ Operating modes



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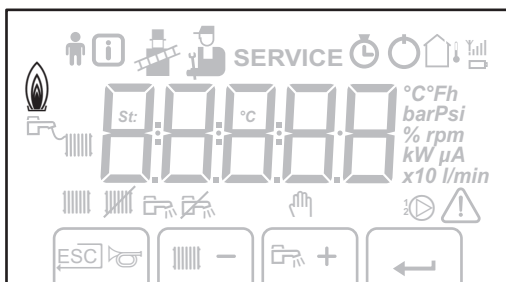
- State heating pump
- Heating programme deactivated:
The heating function is deactivated
- State DHW pump
- DHW off



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- Manual mode
- The DHW function is in economic mode (deactivated)
- Boiler protection is active

■ Flame output level



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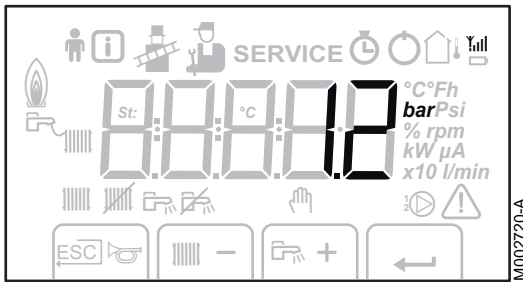
- Low output level 0 - 25 %
- Average output level 25 - 50 %
- High output level 50 - 75 %
- Output level 75 - 100 %

■ System pressure

bar

Pressure indicator:

The symbol is displayed next to the installation's pressure value. If no water pressure sensor is connected, -- appears on the display



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■ Other information



User menu:

Parameters at user level can be changed



Information menu:

Reading the various current values



Chimney-sweeping position:

Forced full or part load for CO₂ measurement



Service menu:

Parameters at installer level can be changed

SERVICE

Display with the symbols:

⌘ + **SERVICE** + (Maintenance message)



Hour counter menu:

Readout of the operating hours, number of successful starts and hours on mains supply



Blocking:

After 5 resets in under 1 hour, the appliance should be switched off and switched on again before resetting



Outside temperature sensor present

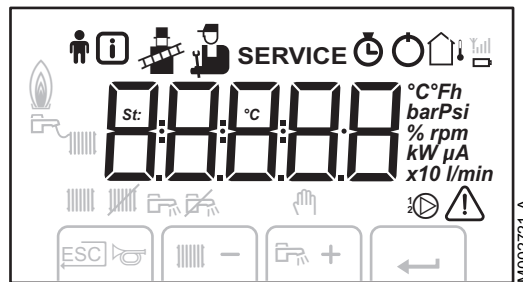


The symbol is displayed when the boiler pump is operating



Defect:

Boiler indicates a fault. This is indicated by an code and a flashing display



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5.2 Switch on the instrument panel



For operation of the boiler **C630 Eco**: The features and instructions described are for each boiler module.



The instrument panel **IniControl** is ready for use, as soon as the power to the boiler is switched on.

1. Open the gas valve on the boiler.
2. Turn on the boiler using the on/off switch.
3. Set the controls (thermostats, control system) so that they request heat.


4. The start-up cycle begins and cannot be interrupted. During the start-up cycle, the display shows the following information:
 A short test where all segments of the display are visible.
 F : : Software version
 P : : Parameter version
 The version numbers are displayed alternately.

By pressing the ← key for a short time, the current operating status is shown on the display:


Heat demand	Heat demand stopped
<input type="text"/> 1 : Fan ON	<input type="text"/> 5 : Burner stop
<input type="text"/> 2 : Boiler is igniting	<input type="text"/> 6 : Post-circulation of the pump
<input type="text"/> 3 : Heating System	<input type="text"/> 0 : Standby

In STAND-BY, the display normally shows the water pressure next to 0 (only when the hydraulic pressure sensor is connected) and the symbols  and .

Error during the start-up procedure:

- ▶ No information is shown on the display:
 - Check the mains supply voltage
 - Check the main fuses
 - Check the fuses on the control panel:
(F1 = 2 AT, F2 = 8 AT)
 - Check the connection of the mains lead to the connector in the instrument box
- ▶ A fault is indicated on the display by the fault symbol  and a flashing fault code.
 - The meaning of the error codes is given in the error table.
 - Press for 3 seconds on key **RESET** to restart the boiler.

5.3 Reading out measured values

 For operation of the boiler **C630 Eco**: The features and instructions described are for each boiler module.

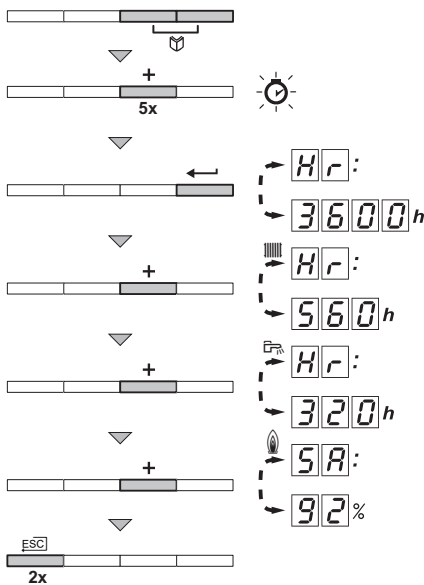
5.3.1. Reading out measured values

The following current values can be read off the information menu i:







- ▶ 5 2 0 0 = Fan speed.
- ▶ 5 2 0 1 = Fan speed Set point.
- ▶ 5 2 0 3 = Burner flame signal.
- ▶ 5 2 0 4 = Gas valve open (1) or closed (0).
- ▶ 5 2 0 5 = GpS connected.
- ▶ 5 2 0 6 = Ignition phase.
- ▶ 5 2 0 7 = Ionization current.
- ▶ 5 2 0 8 = Heat output requested.
- ▶ 5 2 0 9 = Release input.

- ▶ **5210** = Pressure switch minimum VPS.
- ▶ **5213** = Burner start.
- ▶ **5214** = Trap protection activated.
- ▶ **5215** = internal.
- ▶ **5216** = internal.
- ▶ **5217** = internal.
- ▶ **5218** = internal.
- ▶ **5219** = internal.
- ▶ **5220** = internal.
- ▶ **5226** = Heat output (Gvc).
- ▶ **5241** = State.
- ▶ **5242** = Sub-status.
- ▶ **5244** = Flow temperature.
- ▶ **5245** = Exchanger temperature.
- ▶ **5246** = Return temperature.
- ▶ **5247** = Water pressure.
- ▶ **5251** = Outside temperature (Only if an outside temperature sensor is connected).
- ▶ **5252** = Inlet 0-10 Volts.
- ▶ **5256** = Internal set point (°C).

5.3.2. Readout from the hour counter and percentage of successful starts



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1. Press the two keys  simultaneously and then key **[+]** until the symbol  flashes on the menu bar.
2. Press the  key. **Hr** and the number of hours of boiler operation **3600** (for example) are displayed alternately.
3. Press the **[+]** key. The display shows . **Hr** is displayed, alternating with the number of operating hours in central heating operation **560** (for example).
4. Press the **[+]** key. The display shows . **SR** is displayed, alternating with the percentage of successful starts **92** % (for example).
5. Press the  key 2 times to return to the current operating mode.

5.3.3. Status and sub-status

The information menu **i** gives the following status and sub-status numbers:

SE 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
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	45	Output restricted by flue gas temperature
	60	Post-operation time delay on the boiler pump
	61	Stop boiler pump
	62	Close isolating valve
8 Control stop	63	Start anti short cycle
	0	Awaiting burner start-up
9 Blocking	1	Anti-short cycle activated
	XX	Shutdown code XX
10 Lock out		
11 Chimney-sweeping position: Low speed		
12 Chimney-sweeping position: CH speed		
13 Chimney-sweeping position: DHW speed		

5.4 Changing the settings

5.4.1. General

The boiler control panel is set for the most common heating systems. With these settings, practically all heating systems operate correctly. The user or installer can optimise the parameters according to own preferences.



For the settings of the **C630 Eco** boiler: The parameters and settings described are for each boiler module. Each parameter changing must therefore be done identical on each module.

5.4.2. Parameter descriptions

■ Boiler type C 330 ECO

Parameter	Description	Adjustment range	Factory setting					
			C 330 ECO					
			280	350	430	500	570	650
P11	Flow temperature: T _{SET}	20 to 90 °C	80	80	80	80	80	80
P12	Post-circulation of the pump	1 to 98 minutes 99 minutes = continuous	5	5	5	5	5	5
P13	Boiler regulation	0 = Heating deactivated 1 = Heating activated	1	1	1	1	1	1
P14	Display screen	0 = Simple 1 = Comprehensive 2 = Automatic switching to simple after 3 minutes 3 = Automatic switching to simple after 3 minutes; Key blocking is active	2	2	2	2	2	2
P15	Brightness of display lighting	0 = Dimmed 1 = Bright	1	1	1	1	1	1
P17	Maximum fan speed	G25 (Gas L) ⁽¹⁾ (x100 rpm)	53	56	35	38	43	42
		G20 (Gas H) (x100 rpm)	52	55	35	38	43	41
P18	Minimum fan speed	G25 (Gas L) ⁽¹⁾ (x100 rpm)	14	15	9	10	11	10
		G20 (Gas H) (x100 rpm)	14	15	9	10	11	10
P19	offset Minimum fan speed	Do not modify (x1 rpm)	0	50	50	50	0	50
P20	Start speed	Do not modify (x100 rpm)	25	25	13	14	14	14
P21	Maximum flow temperature of system	0 to 90 °C	90	90	90	90	90	90

(1) Do not modify these factory settings unless absolutely necessary. E.g. to adapt the boiler to: G20 (Gas H)

Parameter	Description	Adjustment range	Factory setting					
			C 330 ECO					
			280	350	430	500	570	650
P22	Heat curve set point (Maximum outside temperature) (Only with an outside temperature sensor)	0 to 30 °C	20	20	20	20	20	20
P23	Heat curve set point (Flow temperature) (Only with an outside temperature sensor)	0 to 90 °C	20	20	20	20	20	20
P24	Heat curve set point (Minimum outside temperature) (Only with an outside temperature sensor)	-30 to 0 °C	-15	-15	-15	-15	-15	-15
P25	Antifreeze temperature (Only with an outside temperature sensor)	from - 30 to 0°C	- 10	- 10	- 10	- 10	- 10	- 10
P26	Fault relay function X4 (If connected)	0 = Operation signal 1 = Alarm signal	0	0	0	0	0	0
P27	Fault relay function X5 (If connected)	0 = Operation signal 1 = Alarm signal	1	1	1	1	1	1
P28	Minimum water pressure Wps (Only with the hydraulic pressure sensor connected)	0 - 3 bar (MPa) (x 0,1bar (MPa)) 0 = Not connected	0	0	0	0	0	0
P29	Minimum gas pressure check Gps	0 = Not connected 1 = Connected	0	0	0	0	0	0
P30	Hydraulic valve running time HdV (If connected)	0 to 255 seconds	0	0	0	0	0	0
P31	Flue gas damper running time FgV (If connected)	0 to 255 seconds	0	0	0	0	0	0
P32	Release waiting time	0 to 255 seconds	0	0	0	0	0	0
P33	Gas valve leak proving system CCE (If connected)	0 = Not connected 1 = Connected	0	0	0	0	0	0
P34	Live/neutral inversion	0 = Off 1 = On	0	0	0	0	0	0
P35	Shutdown input function	1 = Shutdown without frost-protection 2 = Shutdown with frost protection 3 = Lock-out with frost protection (Pump only)	1	1	1	1	1	1
P36	From Analogue output (0 - 10V) SCU-S05 control PCB	0 =0-10 V Wilo control PCB 1 = 0-10 V Grundfoss control PCB 2 = PWM pump 3 = Heat output feedback 4 = Temperature feedback	0	0	0	0	0	0
P37	From Analogue input (0-10V) SCU-S05 control PCB	0 =OpenTherm regulator 1 = Analogue temperature-based control (°C) 2 = Analogue heat output-based control (%)	0	0	0	0	0	0
P38	Boiler inertia	Do not modify	6	6	6	6	6	6
P39	Display units	0 = °C/ bar 1 = F / PSI	0	0	0	0	0	0
P40	Maintenance message	0 = Service messages off 1 = Service messages on	0	0	0	0	0	0

(1) Do not modify these factory settings unless absolutely necessary. E.g. to adapt the boiler to: G20 (Gas H)

Parameter	Description	Adjustment range	Factory setting					
			C 330 ECO					
			280	350	430	500	570	650
P41	Service operating hours	(x 100) Do not modify	175	175	175	175	175	175
P42	Service burning hours	(x 100) Do not modify	30	30	30	30	30	30
P43	Setting the pump speed (Minimum pump speed for central heating operation)	2 - 10 (x 10%)	2	2	2	2	2	2
P44	Setting the pump speed (Maximum pump speed for central heating operation)	6 - 10 (x 10%)	10	10	10	10	10	10
P45	ΔTModulate down	10 to 30 °C	25	25	25	25	25	25
Rd	Detection of connected SCUs	0 = No detection 1 = Detection	0	0	0	0	0	0
dF and dU	Factory setting	To restore the factory settings or when replacing the main PCB, enter the values dF and dU from the type plate in parameters dF and dU	X	X	X	X	X	X
			Y	Y	Y	Y	Y	Y

(1) Do not modify these factory settings unless absolutely necessary. E.g. to adapt the boiler to: G20 (Gas H)

■ Boiler type C 630 ECO

Parameter	Description	Adjustment range	Factory setting					
			C 630 ECO					
			560	700	860	1000	1140	1300
P1	Flow temperature: T _{SET}	20 to 90 °C	80	80	80	80	80	80
P2	Post-circulation of the pump	1 to 98 minutes 99 minutes = continuous	5	5	5	5	5	5
P3	Boiler regulation	0 = Heating deactivated 1 = Heating activated	1	1	1	1	1	1
P4	Display screen	0 = Simple 1 = Comprehensive 2 = Automatic switching to simple after 3 minutes 3 = Automatic switching to simple after 3 minutes; Key blocking is active	2	2	2	2	2	2
P5	Brightness of display lighting	0 = Dimmed 1 = Bright	1	1	1	1	1	1
P17	Maximum fan speed	G25 (Gas L) ⁽¹⁾ (x100 rpm)	53	56	35	38	43	42
		G20 (Gas H) (x100 rpm)	52	55	35	38	43	41
P18	Minimum fan speed	G25 (Gas L) ⁽¹⁾ (x100 rpm)	19	18	13	12	14	13
		G20 (Gas H) (x100 rpm)	19	18	13	12	14	13
P19	offset Minimum fan speed	Do not modify (x1 rpm)	0	50	0	50	0	50
P20	Start speed	Do not modify (x100 rpm)	25	25	14	14	15	16
P21	Maximum flow temperature of system	0 to 90 °C	90	90	90	90	90	90

(1) Do not modify these factory settings unless absolutely necessary. E.g. to adapt the boiler to: G20 (Gas H)

Parameter	Description	Adjustment range	Factory setting					
			C 630 ECO					
			560	700	860	1000	1140	1300
P22	Heat curve set point (Maximum outside temperature) (Only with an outside temperature sensor)	0 to 30 °C	20	20	20	20	20	20
P23	Heat curve set point (Flow temperature) (Only with an outside temperature sensor)	0 to 90 °C	20	20	20	20	20	20
P24	Heat curve set point (Minimum outside temperature) (Only with an outside temperature sensor)	-30 to 0 °C	-15	-15	-15	-15	-15	-15
P25	Antifreeze temperature (Only with an outside temperature sensor)	from - 30 to 0°C	- 10	- 10	- 10	- 10	- 10	- 10
P26	Fault relay function X4 (If connected)	0 = Operation signal 1 = Alarm signal	0	0	0	0	0	0
P27	Fault relay function X5 (If connected)	0 = Operation signal 1 = Alarm signal	1	1	1	1	1	1
P28	Minimum water pressure Wps (Only with the hydraulic pressure sensor connected)	0 - 3 bar (MPa) (x 0,1bar (MPa)) 0 = Not connected	0	0	0	0	0	0
P29	Minimum gas pressure check Gps	0 = Not connected 1 = Connected	0	0	0	0	0	0
P30	Hydraulic valve running time HdV (If connected)	0 to 255 seconds	0	0	0	0	0	0
P31	Flue gas damper running time FgV (If connected)	0 to 255 seconds	0	0	0	0	0	0
P32	Release waiting time	0 to 255 seconds	0	0	0	0	0	0
P33	Gas valve leak proving system CCE	0 = Not connected 1 = Connected	0	0	0	0	0	0
P34	Live/neutral inversion	0 = Off 1 = On	0	0	0	0	0	0
P35	Shutdown input function	1 = Shutdown without frost-protection 2 = Shutdown with frost protection 3 = Lock-out with frost protection (Pump only)	1	1	1	1	1	1
P36	From Analogue output (0 - 10V) SCU-S05 control PCB	0 =0-10 V Wilo control PCB 1 = 0-10 V Grundfoss control PCB 2 = PWM pump 3 = Heat output feedback 4 = Temperature feedback	0	0	0	0	0	0
P37	From Analogue input (0-10V) SCU-S05 control PCB	0 =OpenTherm regulator 1 = Analogue temperature-based control (°C) 2 = Analogue heat output-based control (%)	0	0	0	0	0	0
P38	Boiler inertia	Do not modify	6	6	6	6	6	6
P39	Display units	0 = °C/ bar 1 = F / PSI	0	0	0	0	0	0

(1) Do not modify these factory settings unless absolutely necessary. E.g. to adapt the boiler to: G20 (Gas H)

Parameter	Description	Adjustment range	Factory setting					
			C 630 ECO					
			560	700	860	1000	1140	1300
P40	Maintenance message	0 = Service messages off 1 = Service messages on	0	0	0	0	0	0
P41	Service operating hours	(x 100) Do not modify	175	175	175	175	175	175
P42	Service burning hours	(x 100) Do not modify	30	30	30	30	30	30
P43	Setting the pump speed (Minimum pump speed for central heating operation)	2 - 10 (x 10%)	2	2	2	2	2	2
P44	Setting the pump speed (Maximum pump speed for central heating operation)	6 - 10 (x 10%)	10	10	10	10	10	10
P45	ΔT Modulate down	10 to 30 °C	25	25	25	25	25	25
Rd	Detection of connected SCUs	0 = No detection 1 = Detection	0	0	0	0	0	0
dF and dU	Factory setting	To restore the factory settings or when replacing the main PCB, enter the values dF and dU from the type plate in parameters dF and dU	X Y	X Y	X Y	X Y	X Y	X Y

(1) Do not modify these factory settings unless absolutely necessary. E.g. to adapt the boiler to: G20 (Gas H)

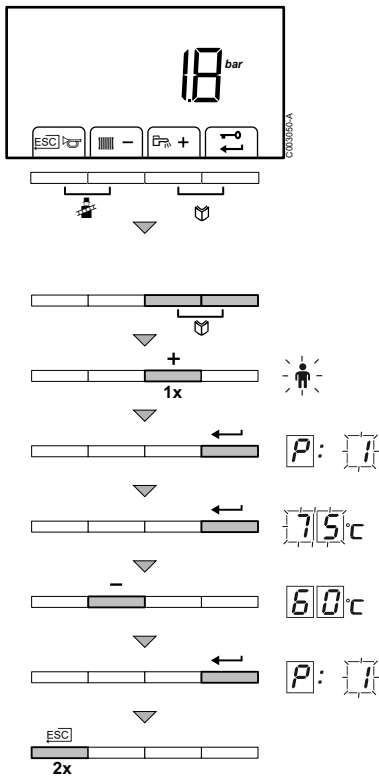
5.4.3. Modification of the user-level parameters

Parameters P0001 to P0007 can be changed by the user.



CAUTION

Modification of the factory settings may be detrimental to the functioning of the appliance.



1. Press the two keys simultaneously and then key **[+]** until the symbol flashes on the menu bar.
2. Select the users menu using the key . **P:0001** is displayed with **1** flashing.
3. Press the key a second time. The value **80°C** appears and flashes (for example).
4. Change the value by pressing the **[-]** or **[+]** key. In this example using key **[-]** to **60°C**.
5. Confirm the value with the key. **P:0001** is displayed with **1** flashing.
6. Press the key 2 times to return to the current operating mode.

The parameters **P0002** to **P0007** are changed in the same way as **P0001**. After step 2, use the **[+]** key to move to the required parameter.

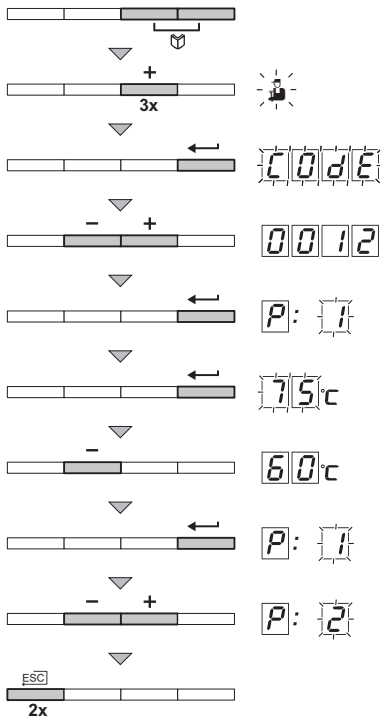
5.4.4. Modification of the installer-level parameters

Parameters **P0017** to **C007F** must only be modified by a qualified professional. To prevent unwanted settings, some parameter settings can only be changed after the special access code **0012** is entered.



CAUTION

Modification of the factory settings may be detrimental to the functioning of the appliance.



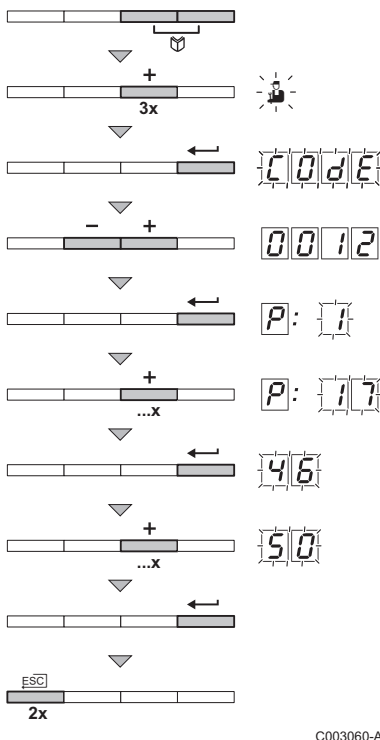
1. Press the two keys simultaneously and then key **[+]** until the symbol flashes on the menu bar.
2. Select the fitter menu using the **←** key. **C0dE** appears on the display.
3. Use keys **[-]** or **[+]** to input the installer code **0012**.
4. Confirm using key **←**. **P:001** is displayed with **1** flashing.
5. Press the **←** key a second time. The value **75°C** appears and flashes (for example).
6. Change the value by pressing the **[-]** or **[+]** key. In this example using key **[-]** to **60°C**.
7. Confirm the value with the **←** key: **P:001** is displayed with **1** flashing.
8. If necessary, set other parameters by selecting them using the **[-]** or **[+]** keys.
9. Press the **ESC** key 2 times to return to the current operating mode.



The boiler also returns to operating status if no keys are pressed for 3 minutes.

5.4.5. Setting the maximum heat input for central heating operation

The speed can be changed using parameter **P:17**. To do this, proceed as follows:

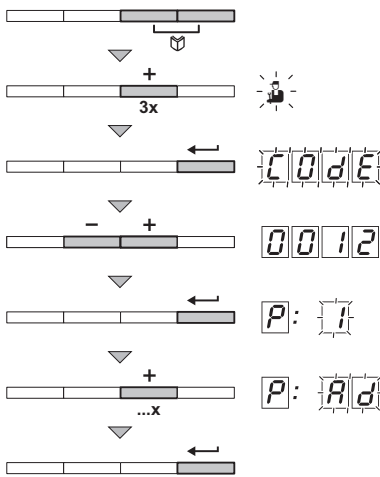


1. Press the two keys simultaneously and then key **[+]** until the symbol flashes on the menu bar.
2. Select the installers menu using the key **←**. **C0dE** appears on the display.
3. Use keys **[-]** or **[+]** to input the installer code **0012**.
4. Confirm using key **←**. **P:17** is displayed with **1** flashing.
5. Press the **[+]** key to go to parameter **P:17**.
6. Confirm using key **←**.
7. Press the **[+]** key to increase the speed from **46** to, for example, **50** (see the graphs for the associated heat output).
8. Confirm the value with the **←** key.
9. Press the **ESC** key 2 times to return to the current operating mode.

5.4.6. Return to the factory settings Reset Param

1. Press the two keys simultaneously and then key **[+]** until the symbol flashes on the menu bar.
2. Select the installers menu using the key **←**. **C0dE** appears on the display.
3. Use keys **[-]** or **[+]** to input the installer code **0012**.
4. Confirm using key **←**. **P:1** is displayed with **1** flashing.
5. Press the **[+]** key several times. **P:CNF** is displayed with **1** flashing.
6. Press the **←** key. **CN:X** is displayed with **X** flashing. This is the current value of X for CN1. Check this against the value of X on the type plate.
7. Enter the value of X shown on the type plate using the **[-]** or **[+]** key.
8. Confirm the value with the **←** key, **CN:Y** is displayed with **Y** flashing. This is the current value of Y for CN2. Check this against the value of Y on the type plate.
9. Enter the value of Y shown on the type plate using the **[-]** or **[+]** key.
10. Confirm the value with the **↵** key. The factory settings are reset.
11. The display returns to the current operating mode.

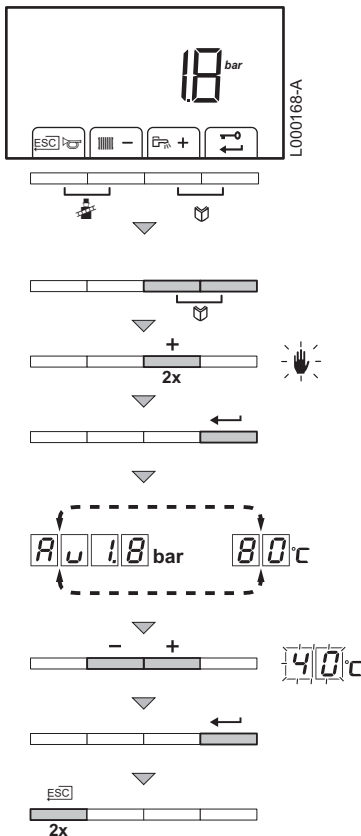
5.4.7. Carrying out an auto-detect



After removing a control PCB, an auto-detect must be carried out. To do this, proceed as follows:

1. Press the two keys simultaneously and then key **[+]** until the symbol flashes on the menu bar.
2. Select the installers menu using the key **←**. **C0dE** appears on the display.
3. Use keys **[-]** or **[+]** to input the installer code **0012**.
4. Confirm using key **←**. **P:1** is displayed with **1** flashing.
5. Press the **[+]** key several times. **P:Ad** is displayed with **1** flashing.
6. Confirm using key **↵**. Auto-detect is carried out.
7. The display returns to the current operating mode.

5.4.8. Setting the manual mode



In some cases it may be necessary to switch the boiler to manual operation, For example, if the controller has not yet been connected. The boiler can be switched to automatic or manual operation under the symbol . To do this, proceed as follows:

1. Press the two keys and simultaneously and then key until the symbol flashes on the menu bar.
2. Press the key:
 - or
 - The text with the current water pressure (only if an outside sensor is connected). The flow temperature is determined by the internal heating curve.
 - or
 - The value of the minimum flow temperature.
3. Press the or key to increase this value temporarily in manual operation.
4. Confirm the value with the key. The boiler is now set to manual operation.
5. Press the key 2 times to return to the current operating mode.

6 Troubleshooting

6.1 Shutdowns and lock-outs



For operation of the boiler **C 630 ECO**:
The features and instructions described are for each boiler module.

6.1.1. General

The boiler is fitted with an electronic regulation and control unit. The heart of the control system is a microprocessor, the **Comfort Master®**, which controls the boiler and also protects the boiler. When a failure is signalled, the boiler stops or becomes locked.

■ Blocking (Control stop)

A (temporary) blocking mode is a boiler operating function caused by an unusual situation. In this case, the display gives a code of blocking (code **SE:9**). The boiler control will try to re-start several times. The shutdown codes can be read out as follows



The boiler starts up again automatically when the reason for the blocking has been removed.

Shutdown code	Description	Probable causes	Checking / solution
SE:0	Parameter error	The PSU PCB is incorrectly configured	<ul style="list-style-type: none"> ▶ Reset EF and EU ▶ Restore parameters with Recom
SE:1	Maximum flow temperature exceeded	The water flow in the installation is insufficient	<ul style="list-style-type: none"> ▶ Check the circulation (direction, pump, valves)
SE:2	Maximum increase of the flow temperature has been exceeded	The water flow in the installation is insufficient	<ul style="list-style-type: none"> ▶ Check the circulation (direction, pump, valves) ▶ Check the water pressure ▶ Check the cleanliness of the heat exchanger
		Sensor error	<ul style="list-style-type: none"> ▶ Check that the sensors are operating correctly ▶ Check whether the boiler sensor has been correctly fitted
SE:3	Maximum heat exchanger temperature exceeded	The water flow in the installation is insufficient	<ul style="list-style-type: none"> ▶ Check the circulation (direction, pump, valves)
SE:4	Maximum heat exchanger temperature increase has been exceeded	The water flow in the installation is insufficient	<ul style="list-style-type: none"> ▶ Check the circulation (direction, pump, valves) ▶ Check the water pressure ▶ Check the cleanliness of the heat exchanger
		Sensor error	<ul style="list-style-type: none"> ▶ Check that the sensors are operating correctly ▶ Check whether the boiler sensor has been correctly fitted

(1) These lock-outs are not stored in the fault memory

Shutdown code	Description	Probable causes	Checking / solution
50:5	The maximum difference between the exchanger temperature and the return temperature has been exceeded	The water flow in the installation is insufficient	<ul style="list-style-type: none"> ▶ Check the circulation (direction, pump, valves) ▶ Check the water pressure ▶ Check the cleanliness of the heat exchanger
		Sensor error	<ul style="list-style-type: none"> ▶ Check that the sensors are operating correctly ▶ Check whether the boiler sensor has been correctly fitted
50:6	The maximum difference between the boiler temperature and the exchanger temperature has been exceeded	The water flow in the installation is insufficient	<ul style="list-style-type: none"> ▶ Check the circulation (direction, pump, valves) ▶ Check the water pressure ▶ Check the cleanliness of the heat exchanger
		Sensor error	<ul style="list-style-type: none"> ▶ Check that the sensors are operating correctly ▶ Check whether the boiler sensor has been correctly fitted
50:7	Maximum difference between the flow and return temperature exceeded	The water flow in the installation is insufficient	<ul style="list-style-type: none"> ▶ Check the circulation (direction, pump, valves) ▶ Check the water pressure ▶ Check the cleanliness of the heat exchanger
		Sensor error	<ul style="list-style-type: none"> ▶ Check that the sensors are operating correctly ▶ Check whether the boiler sensor has been correctly fitted
50:8	The RL inlet on the PCU PCB terminal block is open	Parameter error	<ul style="list-style-type: none"> ▶ Reset dF and dU ▶ Restore parameters with Recom
		Bad connection	<ul style="list-style-type: none"> ▶ Check the wiring
50:9	Phase and neutral of mains supply mixed up	<ul style="list-style-type: none"> ▶ Mains supply incorrectly wired ▶ Floating or 2 phase network 	<ul style="list-style-type: none"> ▶ Invert phase and neutral ▶ Set parameter P34 to 0
50:10 50:11	The BL inlet on the PCU PCB terminal block is open	The contact connected to the BL inlet is open	<ul style="list-style-type: none"> ▶ Check the contact on the BL inlet
		Parameter error	<ul style="list-style-type: none"> ▶ Check the parameter IN.BL
		Bad connection	<ul style="list-style-type: none"> ▶ Check the wiring
50:13	Communication error with the SCU PCB	Bad connection	<ul style="list-style-type: none"> ▶ Check the wiring
		SCU PCB not installed in the boiler	<ul style="list-style-type: none"> ▶ Install an SCU PCB
50:14	The water pressure is lower than 0,8 bar	Not enough water in the circuit	<ul style="list-style-type: none"> ▶ Top up the installation with water
50:15	Gas pressure too low	<ul style="list-style-type: none"> ▶ Incorrect setting of the gas pressure switch on the SCU PCB ▶ Gas pressure too low ▶ Wiring fault ▶ Pressure switch is not or badly fitted ▶ Gas valve defect 	<ul style="list-style-type: none"> ▶ 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 ▶ Check the gas valve and replace if necessary
50:16 ⁽¹⁾	The SU PCB is not recognised	Wrong SU PCB for this boiler	<ul style="list-style-type: none"> ▶ Replace the SU PCB
50:17 ⁽¹⁾	The parameters saved on the PCU PCB are impaired	Parameter error on the PCU PCB	<ul style="list-style-type: none"> ▶ Replace the PCU PCB

(1) These lock-outs are not stored in the fault memory


Shutdown code	Description	Probable causes	Checking / solution
SU:18 ⁽¹⁾	The PSU PCB is not recognised	Wrong PSU PCB for this boiler	▶ Replace the PSU PCB
SU:19 ⁽¹⁾	The boiler has not been configured	The PSU PCB has been changed	▶ Reset df and du ▶ Restore parameters with Recom
SU:20 ⁽¹⁾	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
SU:21	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
SU:22	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
SU:25	Internal error on the SU PCB		▶ Replace the SU PCB

(1) These lock-outs are not stored in the fault memory


■ **Blockage (Fault)**

If the blocking conditions still exist after several start up attempts, the boiler will switch into locking mode (fault). The display shows :

In a red flashing display:

- ▶ The symbol 
- ▶ The symbol **RESET**
- ▶ The fault code (for example **E:01**)

- ▶ Press the **RESET** key for 2 seconds. If the error code continues to display, search for the cause in the error table and apply the solution.

 The code is important for the correct and rapid diagnosis of the type of failure and for any technical assistance that may be needed.

Error code	Description	Probable causes	Checking / solution
E:00	PSU PCB not connected	Bad connection	▶ Check the wiring between the PCU and PSU PCBs
		PSU PCB faulty	▶ Replace the PSU PCB
E:01	The safety parameters are incorrect	Bad connection	▶ Check the wiring between the PCU and PSU PCBs
		PSU PCB faulty	▶ Replace the PSU PCB

Error code	Description	Probable causes	Checking / solution
E:02	The exchanger sensor is short circuited	Bad connection	<ul style="list-style-type: none"> ▶ 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	<ul style="list-style-type: none"> ▶ Check the Ohmic value of the sensor ▶ Replace the sensor if necessary
E:03	The exchanger sensor is on an open circuit	Bad connection	<ul style="list-style-type: none"> ▶ 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	<ul style="list-style-type: none"> ▶ Check the Ohmic value of the sensor ▶ Replace the sensor if necessary
E:04	Temperature of heat exchanger too low	Bad connection	<ul style="list-style-type: none"> ▶ 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	<ul style="list-style-type: none"> ▶ Check the Ohmic value of the sensor ▶ Replace the sensor if necessary
		No water circulation	<ul style="list-style-type: none"> ▶ Vent the air in the heating system ▶ Check the circulation (direction, pump, valves) ▶ Check the water pressure ▶ Check the cleanliness of the heat exchanger
E:05	Exchanger temperature too high	Bad connection	<ul style="list-style-type: none"> ▶ 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	<ul style="list-style-type: none"> ▶ Check the Ohmic value of the sensor ▶ Replace the sensor if necessary
		No water circulation	<ul style="list-style-type: none"> ▶ Vent the air in the heating system ▶ Check the circulation (direction, pump, valves) ▶ Check the water pressure ▶ Check the cleanliness of the heat exchanger
E:06	The return temperature sensor has short-circuited	Bad connection	<ul style="list-style-type: none"> ▶ 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	<ul style="list-style-type: none"> ▶ Check the Ohmic value of the sensor ▶ Replace the sensor if necessary
E:07	The return temperature sensor is on an open circuit	Bad connection	<ul style="list-style-type: none"> ▶ 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	<ul style="list-style-type: none"> ▶ Check the Ohmic value of the sensor ▶ Replace the sensor if necessary

Error code	Description	Probable causes	Checking / solution
E:08	Return temperature too low	Bad connection	<ul style="list-style-type: none"> ▶ 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	<ul style="list-style-type: none"> ▶ Check the Ohmic value of the sensor ▶ Replace the sensor if necessary
		No water circulation	<ul style="list-style-type: none"> ▶ Vent the air in the heating system ▶ Check the circulation (direction, pump, valves) ▶ Check the water pressure ▶ Check the cleanliness of the heat exchanger
E:09	Return temperature too high	Bad connection	<ul style="list-style-type: none"> ▶ 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	<ul style="list-style-type: none"> ▶ Check the Ohmic value of the sensor ▶ Replace the sensor if necessary
		No water circulation	<ul style="list-style-type: none"> ▶ Vent the air in the heating system ▶ Check the circulation (direction, pump, valves) ▶ Check the water pressure ▶ Check the cleanliness of the heat exchanger
E:10	Difference insufficient between the exchanger temperature and the return temperature	Sensor fault	<ul style="list-style-type: none"> ▶ Check the Ohmic value of the sensor ▶ Replace the sensor if necessary
		Bad connection	<ul style="list-style-type: none"> ▶ Check that the sensor has been correctly fitted
		No water circulation	<ul style="list-style-type: none"> ▶ Vent the air in the heating system ▶ Check the circulation (direction, pump, valves) ▶ Check the water pressure ▶ Check the cleanliness of the heat exchanger
E:11	Difference between the return temperature and the exchanger temperature too big	Sensor fault	<ul style="list-style-type: none"> ▶ Check the Ohmic value of the sensor ▶ Replace the sensor if necessary
		Bad connection	<ul style="list-style-type: none"> ▶ Check that the sensor has been correctly fitted
		No water circulation	<ul style="list-style-type: none"> ▶ Vent the air in the heating system ▶ Check the circulation (direction, pump, valves) ▶ Check the water pressure ▶ Check the cleanliness of the heat exchanger

Error code	Description	Probable causes	Checking / solution
E:12	<ul style="list-style-type: none"> ▶ Maximum boiler temperature exceeded (STB thermostat maximum) ▶ Air differential pressure switch has been triggered 	<ul style="list-style-type: none"> ▶ Air inlet or flue gas discharge blocked ▶ Bad connection ▶ No water circulation ▶ Failure of the safety device ▶ Sensor not or badly connected 	<ul style="list-style-type: none"> ▶ Check that the air inlet and flue gas discharge flues are not blocked ▶ Check that condensate has been removed and the cleanliness of the siphon ▶ Check the cleanliness of the heat exchanger (Flue gas dimensions) ▶ 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 ▶ Check that the sensor has been correctly fitted ▶ Check for correct operation ▶ Remove the air from the installation ▶ 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
E:14	5 burner start-up failures	No ignition	<ul style="list-style-type: none"> ▶ 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	<ul style="list-style-type: none"> ▶ 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 μ A)	<ul style="list-style-type: none"> ▶ 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
E:15	The cyclical leak proofing kit (CCE) has detected a leak	Reset the box	<ul style="list-style-type: none"> ▶ Check that the gas valve is fully opened ▶ Checking the gas supply pressure ▶ Check the gas valve and replace if necessary
E:16	Detection of a parasite flame	Ionization current present even though there is no flame Ignition transformer defective	▶ Check the ionization/ignition electrode
		Gas valve defect	▶ Check the gas valve and replace if necessary
		The burner remains very hot: CO ₂ too high	▶ Set the CO ₂

Error code	Description	Probable causes	Checking / solution
E:17	Problem on the gas valve	Bad connection	<ul style="list-style-type: none"> ▶ Check the wiring between the PCU PCB and the gas valve ▶ Check that the SU PCB is correctly in place
		SU PCB faulty	<ul style="list-style-type: none"> ▶ Inspect the SU PCB and replace it if need be
E:32	The boiler flow sensor has short-circuited	Bad connection	<ul style="list-style-type: none"> ▶ 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	<ul style="list-style-type: none"> ▶ Check the Ohmic value of the sensor ▶ Replace the sensor if necessary
E:33	The boiler flow sensor is on an open circuit	Bad connection	<ul style="list-style-type: none"> ▶ 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	<ul style="list-style-type: none"> ▶ Check the Ohmic value of the sensor ▶ Replace the sensor if necessary
E:34	The fan is not running at the right speed	Bad connection	<ul style="list-style-type: none"> ▶ Check the wiring between the PCU PCB and the fan
		Fan defective	<ul style="list-style-type: none"> ▶ Check for adequate draw on the chimney connection ▶ Replace the fan if need be
E:35	Flow and return reversed	Bad connection	<ul style="list-style-type: none"> ▶ Check that the sensor has been correctly fitted
		Sensor fault	<ul style="list-style-type: none"> ▶ Check the Ohmic value of the sensors ▶ Replace the sensor if necessary
		Water circulation direction reversed	<ul style="list-style-type: none"> ▶ Check the circulation (direction, pump, valves)
E:36	The flame went out more than 5 times in 24 hours while the burner was operating	No ionization current	<ul style="list-style-type: none"> ▶ 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
E:37	Communication failure with the SU PCB	Bad connection	<ul style="list-style-type: none"> ▶ Check whether the SU PCB has been correctly fitted into the connector on the PCU PCB ▶ Change the SU PCB
E:38	Communication error with the SCU PCB	Bad connection	<ul style="list-style-type: none"> ▶ Check the wiring between the PCU and SCU PCBs ▶ Reset dF and dU ▶ Restore parameters with Recom
		SCU PCB not connected or faulty	<ul style="list-style-type: none"> ▶ Replace the SCU PCB
E:39	Shutdown input in locked-out mode	Bad connection	<ul style="list-style-type: none"> ▶ Check the wiring
		External cause	<ul style="list-style-type: none"> ▶ Check the device connected to the BL contact
		Parameter incorrectly set	<ul style="list-style-type: none"> ▶ Check the parameter IN.BL

6.2 Error memory

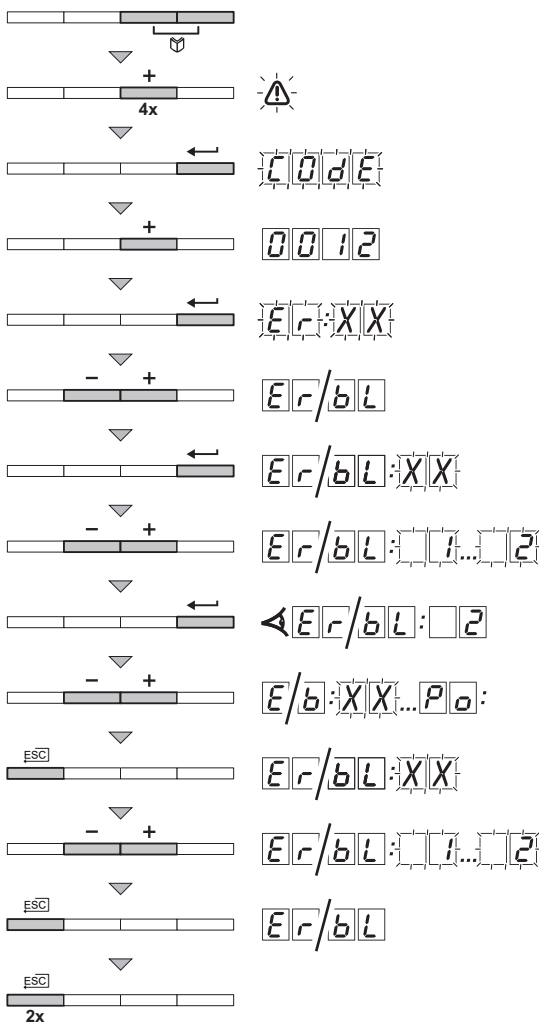
The boiler control is equipped with an error memory. The last 16 errors encountered are recorded in this memory.

In addition to the error codes, the following data are also saved:

- ▶ Number of times that the error occurred: (r□:XX).
- ▶ Boiler operating mode selected (SE:XX).
- ▶ The flow temperature (E1:XX) and the return temperature (E2:XX) when the error occurred.

To view the error memory, you first have to enter access code 0012.

6.2.1. Error readout memorised



L000169-A

1. Press the two keys simultaneously and then key [+] until the symbol flashes on the menu bar.
2. Select the installers menu using the key ←. C0dE appears on the display.
3. Use keys [-] or [+] to input the installer code 0012.
4. Press the ← key. Er:XX appears on the display.
5. The fault list or shutdown list can be displayed by pressing the [-] or [+] key.
6. Confirm using key ←. Er:XX is displayed with XX flashing = Last error which occurred, For example .
7. Use the [-] or [+] key to scroll through the faults or shutdowns.
8. Press the ← key to display the details of the faults or shutdowns.
9. Press the □ key to interrupt the display cycle. Er:XX is displayed with XX flashing = Last error which occurred.
10. Press the □ key to show the fault list or shutdown list.
11. Press 2 times on the key □ to exit the error memory.

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