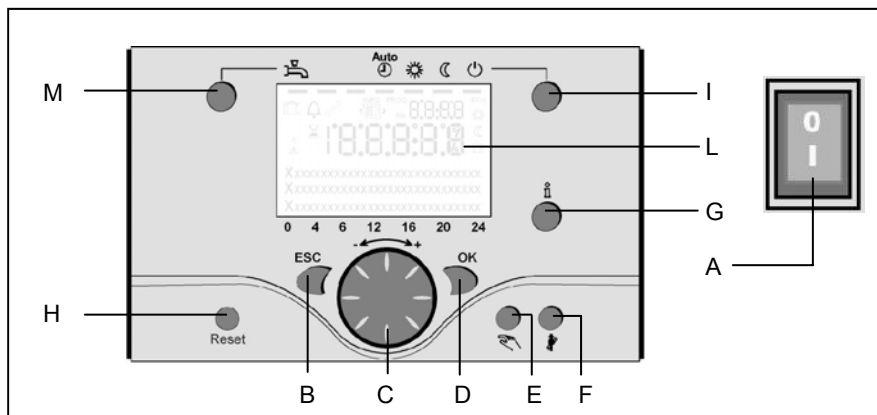


LMS

Quick reference guide

Controls



Legend:

- A On/off switch
- B Return (ESC)
- C Room temperature control
- D Confirmation (OK)
- E Manual mode
- F Chimney sweeper mode
- G Info mode
- H Reset button
- I Operation mode heating zone(s)
- L Display
- M Operation mode DHW

Operation mode DHW (M)

For switching on the DHW operation (indication in display below DHW symbol)

Operation mode heating zone(s) (I)

For setting 4 different heating modes:
 Auto (clock): Automatic operation by time programm
 Comfort (sun): 24/7 heating in comfort mode
 Reduction (moon): 24/7 heating in reduced mode
 Standby: heating off, frost protection activated.

Display (L)

Info mode (G)

Display possibility of following info without influence on boiler control: temperatures, operation mode Heating / DHW, error code.

Room temperature control (C)

- for changing room comfort temperature
- for changing settings when programming.

Confirmation (OK) (D)

Return (ESC) (B)

These buttons are used for programming in combination with the wheel.

By pressing the ESC button it's possible to go back one level, changed values are not taken over by the controller.

By pressing the OK button it's possible to arrive in the next level or confirm changed values.

Manual mode (E)

This button is used for switching the boiler into manual mode. In manual mode all pumps will run and the mixing valves are no longer controlled, the burner setpoint is 60°C (indicated by spanner symbol).

On/off switch (A)

Position 0:

Boiler and connected electrical components are no powered. Frost protection is not secured.

Position I

The boiler and connected electrical components are powered and standby for operation.

Deaeration mode (E)

By pressing the manual mode button longer than 3 seconds, the automatic hydraulic deaeration is activated. During deaeration the system is put in standby mode



The pumps are switched on and off for several times.

After deaeration, the boiler automatically returns to normal operation.

Chimney sweeper mode (F)

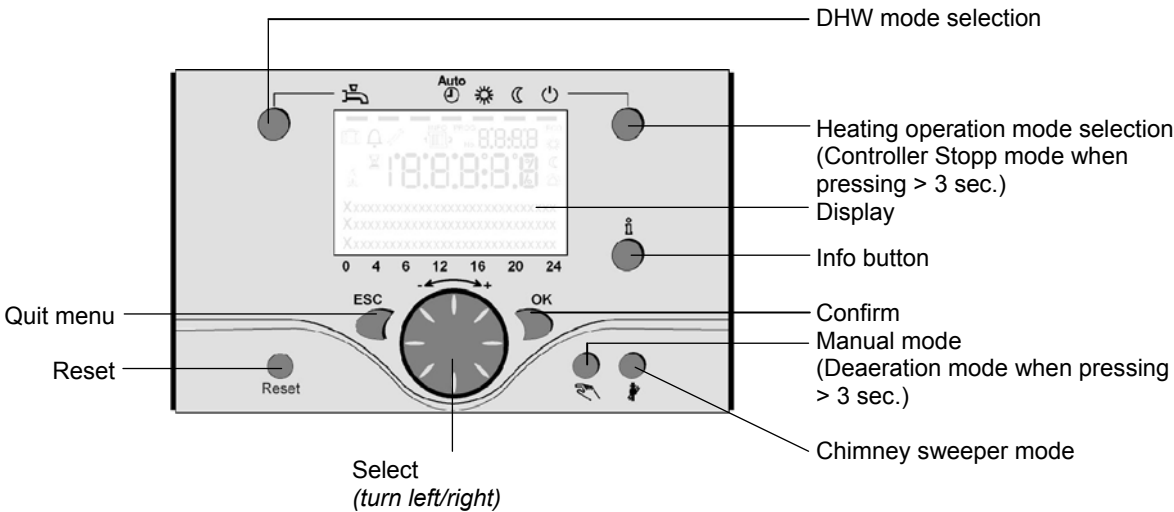
Used for combustion analysis. By pressing the button once again, or automatically after 15 minutes, the chimney sweeper mode will be deactivated (indicated by spanner symbol).

Reset button (H)

By shortly pressing the reset button a burner lockout can be cancelled.

Operating instructions

Display / Programming



Heating to comfort setpoint Info level activated

Heating to reduced setpoint Programming activated

Heating for frost protection setpoint Heating temporarily switched off

Process running – please wait ECO function active

Burner operating (only oil / gas boiler)

Error messages

INFO Info level activated

PROG Programming activated
Heating temporarily switched off

ECO ECO function active

Holiday function active

Reference to heating circuit

Maintenance / special operation

No. Parameter number

Programming

Press **OK** (1x)


Enduser	
- choose	menu
- confirm	with OK button
- choose	parameter
- confirm	with OK button
- change value + -	with wheel
- confirm	with OK button
- return to main menu	with ESC button


Default mode (buttons)

Press **OK** (1x)
Press **INFO** (4 sec.)

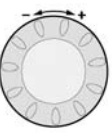

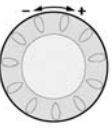

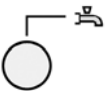










Commissioning	Expert
- choose user level	
- confirm with OK button	
- choose menu	
- confirm with OK button	
- choose parameter	
- confirm with OK button	
- change value + -	with wheel
- confirm with OK button	
- return to main menu	with ESC button

Operating instructions


 **DOK** = confirmation

 **ESC** = cancel, return to main menu

Overview of main functions

Button	Action	Procedure	Display / Function
	Set room temperature	Zone 1 and zone 2 Actuate wheel left/right Turn wheel Confirm with OK button or wait 5 sec. or press 	Comfort setpoint with blinking temperature Blinking temperature in 0,5 °C steps from 10 to 30 °C Comfort setpoint saved Comfort setpoint cancelled - after 3 sec. Main menu appears
	Set room temperature for zone 1 or zone 2	Zone 2 independent from zone 1 Actuate wheel left/right Confirm with OK button Actuate wheel left/right Confirm with OK button or wait 5 sec. or press 	Choose heating zone Heating zone is chosen Blinking temperature in 0,5 °C steps from 10 to 30 °C Comfort setpoint saved Comfort setpoint cancelled - after 3 sec. Main menu appears
	Switch on / off DHW operation	Press button	DHW mode on / off (see indication below DHW symbol) - On: DHW mode by time programm - Off: no DHW operation - Safety functions activated
	Change heating operation mode	Factory setting Press button 1x Press button 1x again Press button 1x again	Automatic mode on, with: - Heating by time programm - Temperature setpoint by heating programm - Safety functions activated - Summer/Winter automatic switching activated - ECO-functions activated (see indication below operation symbol) Continuous COMFORT heating on, with: - Heating without time programm by comfort setpoint - Safety functions activated Continuous REDUCED heating on, with: - Heating without time programm by reduced setpoint - Safety functions activated - Summer/Winter automatic switching activated - ECO-functions activated Safety mode on, with: - Heating off - Temperature by frost protection - Safety functions activated
	Controller Stop mode	Press button > 3 sec. Press button > 3 sec. again	304: Controller Stopp mode insert setpoint after 3 sec. Main menu appears
	Info display	Press button 1x Press button 1x again Press button 1x again Press button 1x	INFO Segment displayed - Status Boiler - room temperature - room temperature minimum - Status DHW - room temperature maximum - Status zone 1 - outside temperature - Status zone 2 - outside temperature minimum - outside temperature maximum - Time / Date - DHW temperature 1 - Error indication - Boiler temperature - Maintenance indication - Flow temperature (Info display depends on configuration) Back to main menu; INFO Segment disappears
	Operation by manual setpoint Change factory setting boiler temperature	Press button 1x Press button  Press button  Turn wheel +/- Press button  Press button  Press button 	Manual mode on (spanner symbol appears) - Heating by fixed setpoint (factory setting = 60 °C) 301: Manual mode insert setpoint? blinking temperature set value Status boiler Manual mode off (spanner symbol disappears)
	Deaeration	Press button > 3 sec. Press button > 3 sec. again	312: Deaeration on Deaeration off
	Activate chimney sweeper mode	Press button (< 3 sec.) Press button again (< 3 sec.)	Chimney sweeper mode on Chimney sweeper mode off
	Temporary reduction of reduced temperature on QAA75	Press button Press button again	Heating by reduced setpoint Heating by comfort setpoint
RESET	Reset button	Press button (< 3 sec.) Press button again > 3 sec.	Boiler manually blocked, no release Boiler released, Alarm symbol disappears

Various functions which can be programmed in the engineer menus.

- **Fixed boiler flow temp with external enable (H5: terminals 111 and 112) or fL*!+`UbX`L*!&L**
 1. Set operation mode of the controller (HMI) to comfort mode ☀.
 2. In menu *Configuration* set parameter 5970 (Function input H4) to "Room thermostat HC1".
 3. In menu *Configuration* set parameter 5971 (Contact type H4) "NC".
 4. In menu *Heating circuit 1* set parameter 742 (Flow temp setpoint room stat) to the desired flow temperature.
- **Fixed boiler flow temp with time program and external enable (H5: terminals 111 and 112) or fL*!+`UbX`L*!&L**
 1. Set operation mode of the controller (HMI) to automatic mode ⚙.
 2. In menu *Configuration* set parameter 5970 (Function input H4) to "Room thermostat HC1".
 3. In menu *Configuration* set parameter 5971 (Contact type H4) "NC".
 4. In menu *Heating circuit 1* set parameter 742 (Flow temp setpoint room stat) to the desired flow temperature.
 5. In menu *Time program 1* set parameter 500 (Preselection) to the desired selection (Mo-Su, Mo-Fr, Sa-Su, Mo...).
 6. In menu *Time program 1* set parameters 501 - 506 (phase on, phase off) to the desired heating periods.
- **Weathercompensation on boiler flow temp with time program and external enable (H5: 111 and 112) or (X6-7 and X6-8)**
 1. Ensure that the resistor on terminals 106 and 107 has been removed and that the outdoor temp sensor (QAC34) has been connected to these terminals.
 2. In menu *Time program 1* set parameter 500 (Preselection) to the desired selection (Mo-Su, Mo-Fr, Sa-Su, Mo...).
 3. In menu *Time program 1* set parameters 501 - 506 (phase on, phase off) to the desired heating periods.
 4. In menu *Heating circuit 1* set parameter 720 (Heating curve slope) and parameter 721 (Heating curve displacement) to the desired values.
- **External temperature setpoint via 0-10Vdc analogue signal (H1: terminals 109 + and 110 -) or fL*!%`UbX`L*!&L (Function not active when setpoint < 5°C, Function active when setpoint > 5°C).**
 1. Ensure that the analogue 0-10Vdc signal has been connected correctly (polarity).
 2. In menu *Configuration* set parameter 5950 (Function input H1) to "Consumer request VK1 10V".
 3. In menu *Configuration* set the desired curve on parameters 5953 - 5956 (Voltage value 1 for temperature F1 and voltage value 2 for temperature F2). Attention: F1 en F2 units are in 1/10 degrees!!
- **External modulation setpoint via 0-10Vdc analogue signal (H1: terminals 109 + and 110 -) or fL*!%`UbX`L*!&L (Function not active when Signal < 0,15Vdc, Function active when signal ≥ 0,2Vdc)**
 1. Ensure that the analogue 0-10Vdc signal has been connected correctly (polarity).
 2. In menu *Configuration* set parameter 5950 (Function input H1) to "Preselected output 10V".
 3. In menu *Configuration* set the desired curve on parameters 5953 - 5956 (Voltage value 1 for modulation F1 and voltage value 2 for modulation F2). Attention: F1 en F2 units are in 1/10 percentage burner modulation!!
- **DHW preparation with time program via thermostat/DHW sensor and pump/3-way valve on Relay output QX3.**
 1. Connect the thermostat/DHW sensor (B3, terminals: 104 and 105).
 2. In menu *Configuration* set parameter 5730 (DHW sensor) to "Thermostat" or "DHW sensor B3".
 3. In menu *Domestic hot water* set parameter 1620 (Release) to "Time program 4/DHW".
 4. In menu *Time program 4/DHW* set parameter 560 (Preselection) to desired selection (Mo-Su, Mo-Fr, Sa-Su, Mo...).
 5. In menu *Time program 4/DHW* set parameters 561 - 566 (phase on, phase off) to the desired heating periods.
 6. In menu *Domestic hot water* set parameter 1610 to the desired domestic hot water temperature (max. 65°C).
 7. Activate the DHW mode by pushing the left top button on the control panel. 

Accessing the ENGINEER menus:

Press OK
Display will show:
"Time of day and date
Operator section"
Press: **i**>3SECS
Use Rotary dial to find **Engineer**
Press: OK
Use Rotary dial to find the menu you require.
Press: OK
Use Rotary dial to find parameter
Press OK to access - it will flash
Use Rotary dial to change
Press OK to enter.

Useful parameters all in **Engineer**:

In Burner control:

9524 Required speed Low Fire – can increase
9529 Required speed High Fire – can decrease

In Diagnostics heat generation:

8310 Boiler flow temp (display only) - To measure Δt
8314 Boiler return temp (display only) - To measure Δt
8329 ionisation microamp (display only)
8323 Fan speed (display of current fan speed)- useful when restricting whilst in controller stop, to find the final value required for 9524 & 9529 above.

In Diagnostic Consumer:

8875 Flow Temperature Set Point VK1 - To view the External Setpoint when an external voltage is applied.

Other functions – accessed directly without going into Engineer menus.

Controller stop - used for commissioning

Press

Mode>3secs

i tells you the % the boiler will fire at

Press OK to access - figure will flash

Adjust the figure using the rotary dial

Select 50% to start with

Press OK to enter

Select 100% = max fire

Select 0% = min fire

The sensors can be registered on the LMS by going to Engineer/Configuration then parameter 6200 and entering yes.