

HIGH EFFICIENCY CONDENSING BOILER-PLANT

G Series USER'S MANUAL

FOR MODULATING BOILER WITH GAS BURNER EQUIPPED FOR NATURAL GAS

Type : B23 Category I2H

Equipment complying with European Community Directives: - Low voltage (73/23/CEE) - Electromagnetic compatibility (89/336/CEE) - Efficiency (92/42/CEE) - as appliancez (90/396/CEE)

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1 Technical Characteristics.

This G Series boiler has been adjusted in the works for group H natural gas (type G20), gas supply pressure 20 mbar or 300 mbar (see data plate).

Any interference with sealed parts will invalidate the warranty

Rated, minimum and maximum gas pressures.

	Type (Lacq)	H gas (G20)	Type (Groning	L gas ue) (G25)
Model	20 mbar	300 mbar	25 mbar	300 mbar
Rated pressure (mbar)	20	300	25	300
Minimum pressure (mbar)	17	270	20	270
Maximum pressure (mbar)	25	330	30	330

Combustion characteristics at 15°C and 1013 mbar.

OPTIMAGAZ

Model – G Series		Unit	G116	G145	G174	G232	G291	G348	G407	G465	
Combustion at 15℃ and 1013 mbar											
Rated pressure P		kW	114	144	173	230	288	345	403	423	
Heat output	Max	kW	121,3	151,5	185.0	248.0	306.0	368.0	435,0	455,0	
	Min	kW	30,0	37,5	47.0	61.5	77.0	93.0	109,0	112,0	
Gas flow (G20)	Max	m³/h	12,8	16,0	19.6	26.2	32.4	38.9	46,0	48,1	
	Min	m³/h	3,2	4,0	5.0	6.5	8.2	9.8	11,5	11,9	
CO ₂ content (G20)	Max	%		8.5 -	- 8.7		8.7 -	- 8.9	8,9 -	- 9,0	
	Min	%				8.0 -	- 8.2				
Elue das flow	Max	g/s	57	71	87	118	142	171	199	208	
The gas now	Min	g/s	15	19	24	31	39	47	55	56	
Flue gas temperature (60/80 °C	Max	C	134	136	138	139	138	146	145	142	
operating mode	Min	ĉ	63	64	65	67	66	67	69	72	
Intake air flow at 1013 mbar and 15°C	Max	m³/h	160,4	200,3	244.6	331.4	400.3	481.4	557,4	583,1	
intake air now at 1013 mbar and 13 C	Min	m³/h	42,4	53,0	67.1	86.8	108.7	131.3	153,9	158,2	
Average weighted annual emission of NOx accoring to EN656		mg/kWh	35	45	50	45	55	55	50	50	
Hydraulic characteristics											
Safe temperature limit		C	106								
Outlet water temperature adjustment rar	nge	ĉ	65 – 90								
Minimum return water temperature		ĉ		45							
Water pressure	Max	bar				2	ļ				
water pressure		bar				1 (c	old)				
Water capacity		L	116	144	153	256	285	315	342	371	
Rated water flow rate through boiler	m³/h				P/20 (ma	x = P/15)					
Hydraulic pressure loss in boiler at P/20	mCE	1,22	1,43	1.0	1.27	1.17	0.71	0,87	1,17		
Sundry											
Weight empty		kg	370	405	440	550	600	660	725	780	

User's Manual for OPTIMAGAZ and CONDENSAGAZ G SERIES

CONDENSAGAZ											
			1		1	1	1	1	1		
Model – G Series…		Unité	G116	G145	G174	G232	G291	G348	G407	G465	
Combustion at 15℃ and 1013 mbar											
Rated pressure P		kW	116	145	174	232	290	348	407	443	
Heat output	Maxi	kW	119,7	148,7	181.0	241.0	297.0	359.0	423,5	462,0	
	Mini	kW	30,0	37,0	45.0	60.0	74.5	90.0	106,0	115,0	
Gas flow (G20)	Maxi	m³/h	12,7	15,7	19.2	25.5	31.4	38.0	44,8	48,9	
	Mini	m³/h	3,2	3,9	4.8	6.4	7.9	9.5	11,2	12,2	
CO. content (G20)	Maxi	%		8.5 -	- 8.7		8.7 -	- 8.9	8,9 -	- 9,0	
	Mini	%				8.0 -	- 8.2				
Flue cas flow	Maxi	g/s	56	70	85	114	138	167	194	202	
	Mini	g/s	15	19	23	30	36	45	53	58	
Flue gas temperature (60/80 °C	Maxi	ç	75	5	78	77	75	76	79	78	
operating mode	Mini	C	57		59	58	59	56	59	60	
Intake air flow at 1013 mbar and 15%	Maxi	m³/h	158,2	196,6	239.3	322.0	388.5	469.6	542,7	592,0	
intake an now at 1015 mbar and 150	Mini	m³/h	42,4	52,2	64.3	85.7	105.2	127.1	149,7	162,4	
Average weighted annual emission of NOx accoring to EN656		mg/kWh	4	40 45 45 50 55 55 55					55		
Hydraulic characteristics											
Safe temperature limit		C	106								
Outlet water temperature adjustment rai	nge	ĉ	65 – 90								
Minimum return water temperature		ĉ				4	5				
Water pressure	Maxi	bar				2	1				
	Mini	bar				1	I				
Water capacity		L	140	175	185	296	328	359	391	424	
Rated water flow rate through boiler		m³/h				P/20 (Ma	ax: P/15)				
Rated water flow rate through	Maxi	m³/h				P/	15				
condensation heat exchanger	Mini	m³/h				P/	45				
Hydraulic pressure loss in boiler at P/20		mCE	1,22	1,4	1.0	1.27	1.17	0.71	0,87	1,17	
Hydraulic pressure loss in condensation exchanger at P/20	n heat	mCE	0,22	0,18	0.25	0.15	0.22	0.25	0,31	0,38	
Sundry											
Weight empty		kg	425	450	485	600	650	725	805	880	

Characteristics of electrical connections.

OPTIMAGAZ - CONDENSAGAZ

Model –G Series…	G116	G145	G174	G232	G291	G348	G407	G465	
Electric power consumption (boiler without accessories) (W)	180	250	260	270	390	360	550	620	
Electric power supply (V)			230 V	'AC +10'	% -15 %	50 Hz			
Rated current without accessories (A)	1,3	1,2	1.15	1.2	1.7	1.6	2,8	3,0	
Peak current without accessories (A)	2.5 3							,0	
Main fuse rating (excluding GUILLOT items) (A)	12,5								
Max length of probe cables	DHW probes: 10 m Ambient thermostat: 30 External probe: 30 m Ambient probe: 30 n) m 1		
Power terminal outputs	230 V AC +10 % -15 % 5 mA to 2 A								

2 Installation.

The equipment must be installed and maintained by a qualified professional according to all current regulations and best professional practices applicable in the country where the boiler is installed. The boiler must be installed in premises provided with ventilation openings in compliance with applicable regulations (see installation and maintenance manual).

3 Start-up.

Before shipping, all boilers undergo a works test with group H natural gas (type G20) during which all necessary adjustments are made. First start-up

For temporary start-up, proceed as follows:

- 1. Switch on the power (main on/off switch)
- 2. Create a heat demand in comfort mode by way of the client interface (see "Interface presentation" section)
- 3. After the burner has started up, check for leaks in the gas line using a foam-producing product. Check that combustion is safe and complete.
- 4. Adjust the clock. (See summary table of client parameters at the end of the manual).

must be carried out by our Service Centre 0161 621 5960

Any interference with sealed parts will invalidate the warranty.

4 Shut-down.

To shut down the boiler, proceed as follows:

- 1. Switch off the main ON/OFF switch.
- 2. In the event of a prolonged shut-down close the isolating valve of the gas supply.

5 Maintenance.

Boiler maintenance must be carried out once a year (see Installation and Maintenance Manual).

Call on the services of a qualified professional for all maintenance operations (see Installation Manual).

6 Frost protection.

The guarantee remains valid only if the heating network is treated with anti-freeze when there is a risk of frost.

If it is decided nevertheless to drain the system, the user is responsible for ensuring that no water remains in the boiler.

- Close the gas supply isolating valve.
- Close the outlet and return stop-cocks.
- Open the safety valve to create an air inlet on the upper part of the boiler tubes; open the cock of the boiler drain tube.

• Switch off the main ON/OFF switch.

7 User interface and boiler management.

7.1 Presentation of the interface

The boiler's client interface comprises an on/off switch, a drawer-type fuse-holder, an electronic board with a backlit LCD screen (2 lines of 4 figures + pictograms) and 10 keys, and an opening for insertion of 2 96 x 96 regulators or 1 144 x 96 regulator. All client settings and possible parameter adjustments are performed through this interface. It also allows the operator to consult information concerning boiler operation.



7.2 LCD display

The standard display presents the state of the boiler (operating mode, time, time programming, boiler temperature, flame presence, possible faults).



If a non-blocking fault occurs, the time display alternates with display of the fault code.

This type of defect does not lead to a shut-down.



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When a fault leads to boiler shut-down, a flashing display of the fault code replaces the boiler temperature display. An alarm bell is displayed in the bottom left corner of the display window.

Refer to the "Error message" section for information on the fault codes.

In both cases a brief pressure on the Information key (i) makes it possible to display only the fault code. Press keys \bigtriangledown and \land simultaneously for display of the extended fault code (Press (i), then (iii) or (iii) to return to standard display).

7.3 Operating modes

Heating mode key im

Stop

For selection of heating mode among the Stop, Auto, Comfort and Eco modes

占 Ð Ŭ C Ċ ◀ 12 16 20

No heating demand has been received. The frost protection function is activated.

0 4 8

Comfort 占 Ð C Q 桊 m 12 16 20

Permanent comfort mode. Burner power is adjusted to maintain the heating setpoint (m).

Eco



Permanent reduced-power mode. Burner power is adjusted to maintain the reduced heating set-point. (Parameter n°5, see paragraph 7.6).

Auto



Two further "service" modes are available. They make it possible to carry out measurements on the boiler.

Flue cleaning



The regulator alternates Comfort and Eco modes, according to the time programming.

This mode allows the burner to operate at full load.

Press (m) and (b) simultaneously for approximately 3 seconds

The burner starts up (if it was not already in operation) and power increases to provide maximum heat output.

The burner shuts down when the temperature limiting themostat is triggered (88°C). This is a safety feature independent of the maximum operating temperature which cannot exceed 85°C.

While this function is activated, a forcing¹ signal is generated to evacuate heat.

Regulator B O K C O

This mode allows burner heat output to be fixed manually

Press for approximately 6 seconds when in a standard mode or for 3 seconds when in the flue cleaning mode.

The relative² power set-point of the burner is displayed on the screen.

The \triangleleft and \bowtie keys can be used to adjust the set-point value by 1 % steps. Keys \bigtriangledown and \bigtriangleup can be used to go directly to the min. or max. power set-point (0 % or 100 %)

To exit one of these two modes and return to standard operation, press () and () simultaneously for 1 second.

- -Flue cleaning mode
- -Regulator off mode.

²Relative power: this is the actual power output of the burner with respect to its modulation range.
 0 % corresponds to minimum power and 100 % to maximum power of the boiler.

To convert this to a percentage of heat output (or load factor), the following formula can be used:

$$\%Q_{cal} = \frac{Power_{relative} \cdot (100 - \%Q_{\min})}{100} + \%Q_{\min} = 0.75 \cdot P_{rel} + 25$$

Displayed percentage	100	90	80	70	60	50	40	30	20	10	0
Load factor (%)	100	92.5	85	77.5	70	62.5	55	47.5	40	32.5	25

¹ Forcing signal: triggers pump start-up and/or opening of the 3-way valve of the connected heating circuits so as to evacuate heat. This signal is triggered by:

⁻Electronic temperature limiter.

⁻Safety thermostat.

⁻Boiler frost protection.

DHW Mode key 🖻

Activates / disactivates the production of domestic hot water





7.4 Set-point adjustment

Adjustment of the heating set-point

According to the mode of regulation chosen, the set-point temperature can have different meanings:

- In constant temperature mode, the set point is a boiler outlet water temperature.
- ✓ In regulated mode, depending on outside temperature or ambient temperature, or both, the set point is an ambient temperature.

Press the heating set-point key (m). The current set-point is displayed.

Use the \triangleleft or \vdash key to adjust the heating set point temperature.

To exit the set point adjustment screen press the heating mode (m), DHW mode (m), or heating set point (m) key.

If no key is pressed the interface returns to the standard display after about 8 minutes.

Adjustment of DHW set point

This function is available only if DHW production is connected to the boiler.

Press the domestic hot water set point key (6). The current value of the set point is displayed.

Use the \triangleleft or \vdash key to adjust the DHW set point temperature.

To exit the set point adjustment screen press the heating mode (iii), DHW mode (iii), or DHW set point (iii) key.

If no key is pressed the interface returns to the standard display after about 8 minutes.





pressure on (i) moves the display to the following variable.

1	DHW temperature	
2	Not used	
3	Burner operation phase code (see section on " <i>Burner phase codes</i> ")	
4	Outside temperature	
5	Albatros ³ error code (see section on " <u>Error messages"</u>)	
6	Boiler temperature	

To return to standard display, press the (m) or (b) key.

³ Albatros: name given by SIEMENS to the fault codes.

Table of additional information

From the Info mode (one pressure on the Info key (i)), it is possible to obtain additional data concerning boiler operation. For this, press \bigtriangledown and \bigtriangleup simultaneously for about 3 seconds. The time display is replaced by an address composed of a letter (b, C, d) and a figure (from 0 to 7). Use keys \bigtriangledown and \bigtriangleup to modify the letter. Use keys \backsim or \bigcirc to modify the figure.



Press key (i) to return to Info mode or (iii) or (b) to return to the default display.

Address	Information
b0	Extended fault code
b1	Return probe temperature
b2	-
b3	Flue gas temperature
b4	External temperature probe
b5	Composite outside temperature
b6	Attenuated outside temperature
b7	3-way valve kit oulet temperature probe
C1	Ionisation current (µA)
C2	Measured fan speed
C3	Measured fan PWM Signal
C4	Relative power (see ² page 9)
C5	-
C6	Actual difference set point / measured value
d1	Set point for boiler temperature (including DHW and other heating circuits)
d2	Heating temperature set point
d3	Ambient temperature set point
d4	DHW temperature set point
d5	Level of modulation of max. fan speed in heating mode
d6	Max. speed in heating mode

Error messages

In the event of a fault leading to shut-down, the alarm signal is permanently displayed and the fault code flashes. To reset the system, correct the fault and then press the reset button (b) for at least 2 seconds.

Albatros						
number	Interpretation					
0	No input in Albatros code – no defect					
10	External probe fault					
20	Boiler probe fault					
28	Flue gas probe fault					
32	Clip-in probe fault					
40	Return probe fault					
50	DHW probe fault					
61	Ambient temperature regulation: Failure					
62	Ambient temperature regulation: error or radion clock error					
81	Short-circuit on LPB bus or bus power supply failure					
82	Address collision on LPB bus (several identical addresses)					
91	Data loss in EEPROM					
92	Equipment fault in electronic part					
100	Two master clocks in system					
105	Maintenance alert					
110	Safety thermostat triggered (electronic or mechanical)					
111	Triggering of limiting thermostat					
113	Excess over authorized flue gas temperature					
128	Flame failure during operation					
129	Poor air supply					
130	Power limitation due to excessive flue gas temperature					
132	Response of gas pressure switch					
133	No flame formation after expiry of safety period					
140	Segment number or LPB equipment number inadmissible					
148	LPB and LMU communication interfaces not compatible					
151	Internal LMU fault					
152	LMU parameter error					
153	Eqipment in locked position					
154	Inconsistency in Flow or Return or Ambient or ECS temperatures					
160	Fan threshold speed not reached					
161	Maximum fan speed exceeded					
162	Air pressure switch not closed					
164	Response of flow controller / low water level contact					
166	Air pressure switch not open					
180	Flue cleaning function activated					
181	Regulator off function activated					
183	Equipment in parameter setting mode					

Burner phase codes

To consult the burner phase codes, press the Info key i 3 times, as indicated in the "Info key" section

Phase code	Interpretation
0	Stand-by (no heat demand)
1	Start-up blocked
2	Fan ramping up to speed
3	Preventilation
4	Waiting time
5	Pre-ignition time
6	Safety period
10	Heating mode
11	DHW mode
12	Parallel heating and DHW operation
20	Post-ventilation
22	Return to initial position
99	Failure position (display of current fault code)

7.6 Parameter setting

To optimize boiler configuration, the final user or the installer can modify a certain number of parameters. To ensure security of the boiler configuration, not all parameters are accessible to the final user. They are therefore grouped according to level of access.

From the standard display, access the parameter setting mode – final user level – by pressing the \bigtriangledown or \bigtriangleup key. The screen then displays a P followed by a 3-figure parameter number. With the \bigtriangledown and \bigtriangleup keys it is possible to scroll through the list of parameter numbers. When the desired parameter is displayed, adjust its value with the \triangleleft and \biguplus keys. The new value is validated as soon as you select the previous or next parameter or when you exit the mode by pressing the i key. Beware, if you exit the programming mode by means of the m or F key the modification of the current parameter will not be validated.

Consult the client parameter summary table at the end of this manual.

Parameters accessible at installer level

From the parameter setting mode, final user level, access the installer level by pressing the \bigtriangledown and \bigtriangleup keys simultaneously for 3 seconds. The letter P is then replaced by an H.

Consult the client parameter summary table at the end of this manual.





8 Operation of control cabinet.



Legend:

PG CD TL	= Gas pressure switch= Flow controller= Limiting thermostat
	= Alarm
	= Flame detection
4	= Ignition electrode
	= Gas valve
\bigcirc	= Fan
Nmax N_VL N_ZL N_TL Nzero	 Maximum speed authorized Maximum speed authorized during modulation. Ignition speed Minimum speed authorized during modulation. Speed less than 200 rpm so considered as nil

Fan speed

Summary table of client parameters

Boiler:	site :
Serial number:	

Please note all modifications to parameters in this document !

Adjustment line		Function	Adjustment range	Default value	Client setting
		Clock adjustment			
P 1		Time (current)	00:00 23:59		
P 2		Day (current)	1: Monday- 7: Sunday		
		ow outlet cot point / Low ambient cot point (according to mode)	20.80/10.26%	40/15	
<u> </u>	5	Low outer set point / Low and en set point (according to mode)	20007 1020 C	40713	
		Time programming of direct heating circuit			
-		Preselection of day(s) to be programmed:			
P	10	1-7 Complete week 1-5 Monday to Friday		1-7	
_		17 Day od the week 6-7 Saturday and Sunday	0.00 01.00		
P	11	Start 1st period	0:00 24:00	06:00	
P	12	End 1st period	0:0024:00	22:00	
P	13	Start 2 period	0:0024:00	:	
	14	LIU Z pellou Start 3rd period	0:00 24:00		
P	16	End 3rd period	0:00 24:00		
P	20 à 26	Not used	0.00 24.00	·	
<u> </u>					
		Time programming of domestic hot water (DHW) (activated depending on configuration)			
 		Preselection of day(s) to be programmed:			
P	30	1-7 Complete week 1-5 Monday to Friday		1-7	
<u> </u>		17 Day od the week 6-7 Saturday and Sunday			
Ρ	31	Start 1st period	0:00 24:00	06:00	
P	32	End 1st period	0:00 24:00	22:00	
P 33			0:00 24:00	:	
P	34		0:00 24:00	:	
P	35	Staft 3rd period	0:0024:00	:	
Р	30	zna sra perioa	0:00 24:00	:	
		Poturn to standard time programming for beating and DHW			
P	45	press – and + keys simultaneously for 3 seconds)		0	
Н	90	_ow set point for DHW temperature	5065 °C	65	
н	91	iberation of DHW production:		0	
H	93 à 94	Not used		0	
		Settings for heating circuits			
Н	505	Maximum heating set point temperature	65…90 ℃	87.0	
н	510	Over-rise in the instruction of starting temperature for the head of hot water medical	030 K	15	
P 532		Slope of direct circuit heating characteristics	1 40	22	
H 534		Correction of ambient set point for direct heating circuit	-31 31 K	0.0	
11 001					
Boiler configuration					
H 536		Maximum fan speed in heating mode	0 9950 rpm	See b	elow
	G116	G145 G174 G232 G291 G348	G407	G465	
ļ	OPTI CON.	OPTI CON. OPTI CON. OPTI CON. OPTI CON. OPTI CON.	OPTI CON.	OPTI CON.	
ļ	7050 7000	5850 5850 5950 5750 5500 5400 6200 6200 6000 5850	5300 5200	5550 5550	
H 542		Vinimum boiler power output	0 9999 kW	acc. to model	
H 543		viaximum polier power output	U 9999 KW	acc. to model	
H 544		nine delay to shut-down of pump of or to closure of isolating valve Y1, max. 218	0 255 min	5	
FI 344		255 = permanent operation of Q1 or permanent opening of Y1)	0 200 11111	J	
H 545		Minimum burner pause time	0 3600 sec	300.0	

Adjustment line		Function		Adjustment range	Default value	Client setting
H 552	Installation 66 80	configuration setting: Stand-alone boiler Boiler in cascade installation			66	
H 553	Influence of ambient temperature probe on heating circuit (only with ambient control unit) : Units: influence on direct circuit (DC) Tens: not usedi 0 Direct circuit not influenced by ambient temperature probe 1 Direct circuit controlled by ambient temperature probe 2 Inactive 0/1 Circuit controlled by ambient temperature probe 1 Direct circuit controlled by ambient temperature probe 2 Inactive 0/1 Circuit controlled by ambient temperature probe			0		
H 555.b0	Not used				0	
H 555.b1	Type of DH	W priority: Absolute priority 1 N	No priority		0	
H 555.b2 a b3	Not used	tion of installation :			0	
H 555.b4	0	out of use 1 li	n use		1	
H 555.b5 - b7	Not used				0	
H 558.DU	Type of cor	struction :			0	
H 558.b1	0 Type of DH	Lightweight 1 H W control device:	leavyweight		0	
H 558.b2	0	Probe 1 T	Thermostat		0	
H 558.b3 - b7	Not used				0	
	Communic	ation by LPB bus				
	Synchronis	ation of local / system clock:				
H 604.b0	b1	b0			0	
H 604.b1	0 0 1	System time without adjustment System Master Clock			0	
H 604.b2	Setting of b	us supply: Centralized supply 1 A	Automatic supply by regula	tors	1	
H 604.b3	Display of bus supply :				0	
H 604.b4	Not used		<u>212</u>		1	
	Allocation o	f DHW to consumers:			0	
H 604.05	b6 b5 0 0 Local consumers only,			0		
H 604.b6	0 1 Consumers of same segment, 1 0 All consumers of system				0	
H 604.b7	0 priority to external power demand via 0 10 V input: 1 priority to external power demand 1 priority to LPB bus			0		
H 605	Device add	ress I		0 16	1	
LL 606	Segment a	Idress:		0 14	0	
	0 1 14	consumer segments		014	0	
	0	Inactive 7 S	Signal for hot air curtain fur	nction active		
H 615	2	External alarm 8 L Burner operating 9 F	Jownstream pump for bala Pump Q8	ncing vessel		
	ő	Pump of DHW network 12 C	-10 V input active			
						
	Function of	programmable input of clip-in :				
H 618	0	Inactive 3 H	lot air curtain		0	
	1	Modem 4 F Modem reverser 5 F	Prescribed set point		v	
	Function of	the lst programmable output of clip-in :				
	0	Inactive 7 S	Signal for hot air curtain fur	nction active	c	
H 619	2	External alarm 8 L Burner operating 12 0	Downstream pump for bala)-10 V input active	ncing vessel	3	
	6	6 Pump of DHW network				
	Function of	the 2nd programmable output of clip-in :	Signal for hot air curtain fur	oction active		
H 620	2	External alarm 8 E	Downstream pump for bala	ncing vessel	12	
	3	Burner operating 12 C)-10 V input active	-		
H 622	6 Pump of DHW network Temperature set point for an input signal equal to 10 V, in prescribed set point 5 130 °C		100			
H 623	Threshold	f 0 10V (x10) signal to authorize burner ope	ration at minimum power,	5 95	25	
	in prescribe	in prescribed power mode (H618 = 5)				
	Maintenand	e alerts				
P 629	Temporary	acknowledgement of maintenance alert:			0	
	1	Acknowledgement			~ 	

Adjustment line	Function Adju	istment range	Default value	Client setting
H 630.b0	Activation / disactivation of maintenance alert: 0 Alert disactivated 1 Alert active		0	
H 630.b1 à b5	Not used		0	
L 620 h6	General acknowledgement of maintenance alert:		0	
11 030.00	1 Acknowledgement		0	
H 630.b7	Not used		0	
H 632.b0	Pump Q8 active for LPB heat demand : 0 No 1 Yes		0	
H 632.b1	Not used		0	
H 632.b2	Pump Q8 active for a direct heating circuit heat demand: 0 No 1 Yes		0	
	Pump Q8 active for a DHW heat demand:			
H 632.03	0 No 1 Yes		0	
H 632.b4 à b7	Not used		0	
H 634	Burner operating time in hours since last maintenance		0	
H 635	Number of burner start-ups since last maintenance		0	
H 636	Boiler operating time in months since last maintenance		0	
11 700	Fault / Counter log			
H 700	Counter of repetitions of logged fault n° 1			
H 701	Burner phase during logged fault n°1 ° (see below)			
H 702	Extended code of logged fault n°1			
H 703	Counter of repetitions of logged fault n°2			
П 704 U 705	Eurner priase during rogged rault n2 (see ber ow)			
П 705 Ц 706	Cauntar of ranatitians of logged fault n°2			
П 700 Ц 707	Purper phase during logged fault nº * (see bol ow)			
H 708	Extended code of loaged fault n°S			
H 700	Counter of repatitions of logged fault n°4			
H 710	Burner phase during logged fault n 4 * (see bel ow)			
H 711	Extended code of loaged fault n/4			
H 712	Counter of repetitions of logged fault n°5			
H 713	Burner phase during logged fault n 5 * (see bel ow)			
H 714	Extended code of logged fault n5			
H 715	Counter of repetitions of current fault			
H 716	Burner phase during current fault * (see below)			
H 717	Extended code of current fault			
<u></u>				
H 718	Burner operating time 0.	131070 h	0	
H 719	Operating time in heating mode 0.	131070 h	0	
H 720	Operating time in DHW mode 0.	131070 h	0	
H 721	Operating time in zone regulation mode 0.	131070 h	0	
H 722	Start-up counter 0	327675	0	
H 728	Albatros Code of logged fault n			
H 729	Albatros Code of logged fault n ²			
H 730	Albatros Code of logged fault n'3			
H 731	Albatros Code of logged fault n ¹⁴			
H /32	Albatros Code of logged fault n'5			
H 733	Albatros Code of current fault			

In italics: read-only parameters

*: Correspondance of burner phase codes:

0, 1, 2	Return to stand-by position	11	Pre-ignition (heating of ignition electrode)		
3	Stand-by	12, 13, 14, 15	Safety period		
4	Blockage of start-up	16	Post-ignition (maintenance of ignition rate)		
5, 6	Fan ramping up to speed	17	Burner modulation		
7	Preventilation	18, 19, 20, 21	Post-ventilation		
8, 9, 10	Waiting position	22	Safety shut-down		