Controller manual

for the qualified professional

applicable to:

Nesta Chrome

CoilMaster

Texas

TMU

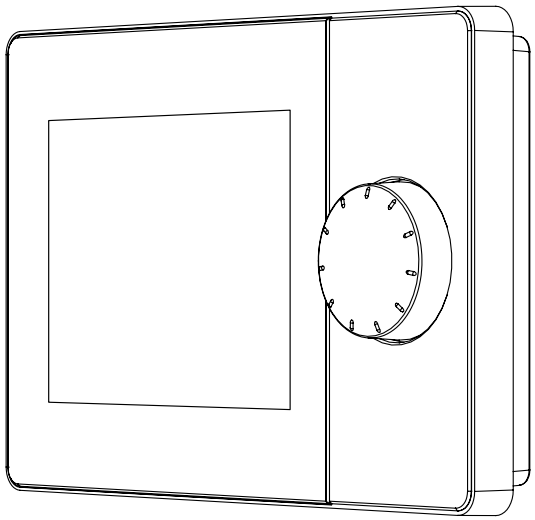

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Table of Contents

General

Dear Expert,

this manual complements the Installation and Operation Manual of your appliance.

It provides further information on the controller interface and the associated boiler management unit (LMS/RVS) installed in the most recent models of Nesta Chrome and in the CoilMaster, Texas and TMU appliances: controls, structure of the menus, factory defaults, meaning of error codes, etc.

Not all the program lines available through the interface are presented in this manual, only those that are the most likely to be used. For further information, please contact your AIC representative.

Interactive Features

This manual provides interactive features that will allow you to navigate through the pages of the document:

- Interactive table of contents in the book itself, using the bookmark function of your PDF application
- Interactive cross-references
- Active buttons and references

In the table containing the list of menus and functions of the controller, each function in the top menu shows an ? icon. Clicking on it opens an explanatory window for the function. Clicking on the window closes it.

When navigating through the pages, remember you can always come back to the last-seen page by clicking on the icon appearing in the top right corner of the page.

Control Panel and Main Functions

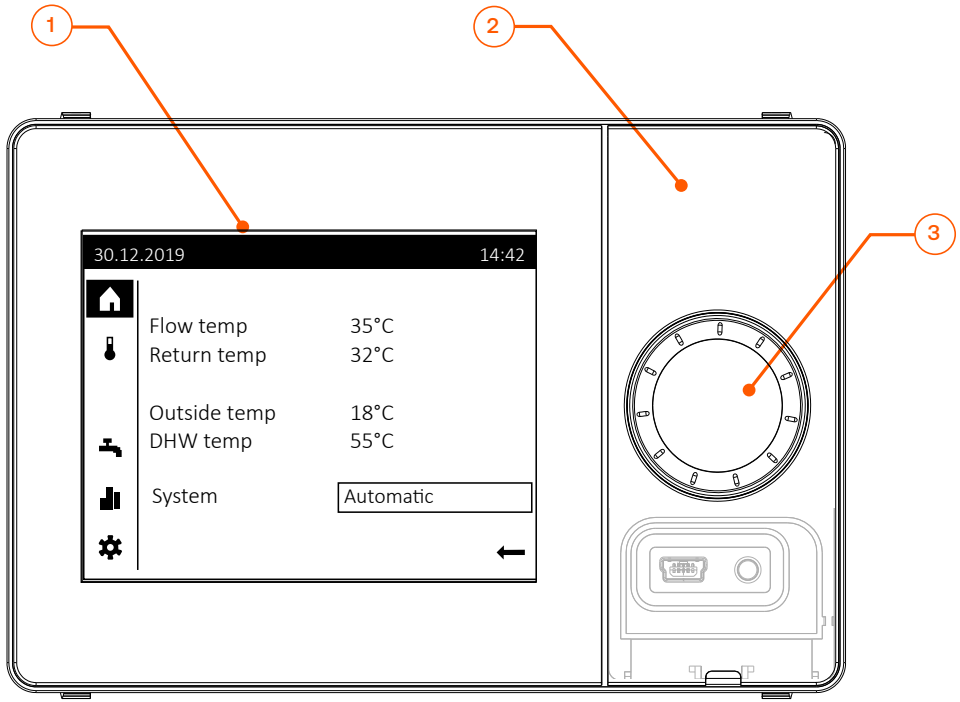


Fig. 1. Control Panel

KEY

1. LCD Display - The display illuminates whenever the rotary selector is rotated or depressed, and remains on for 8 minutes. For a detail of the symbols and messages displayed on the screen, see ***"Symbols and Messages on the Control Panel".***
2. Removable panel - To access the USB connector and Reset button located underneath (showed in light grey on the picture, for information).
3. Rotary selector - It can be used in 3 different ways:
   - Turning the selector to the left or to the right allows to scroll through the menus (icons/functions) or increase/decrease a value after selecting a function.

When entering a menu/sub-menu, the slow rotation of the selector to the right (clockwise) allows to scroll through the menu, down to the last function. Turning the selector to the left (counter-clockwise) allows to scroll up to the first function of the menu.

   - Depressing the selector (short push) allows to select a function/value and validate a choice.
   - Depressing the selector for more than 3 sec. when an error is displayed on the screen, takes you back to the Home screen. Doing the same in Expert menus brings back to the Expert view start page.

For more information on the symbols and the operation of the controller, see ***"Menus and Settings".***

Symbols and Messages on the Control Panel

The control panel display is divided into several zones (See ***Fig. 2):***

- a **vertical menu bar** (**1**) on the left side of the screen, comprising a series of icons to access various menus. When one of the icon is selected and active, is displays against a black background (**2**). When one icon is selected and activated by pressing the selector, the menu bar disappears and gives way to the work area.
- a **horizontal status bar** (**3**) at the top of the screen. It permanently displays the time and, according to the situation, specific icons (Alarm, Maintenance, Event, Manual adjustment, User level and Producer in operation). See a detail of the symbols below.
- a **work area** (**4**), comprising menu and function-specific information as well as operating mode. It also displays a **back arrow** (**5**), allowing to exit the work area and go back to the vertical menu bar.

Symbols of the **vertical menu bar**:

Home. Gives access to the System status and change it from *automatic* to ***off***.

Temperature. Gives access to the heating functions and setpoints.

Ventilation. Not used.

Domestic Hot Water. Gives access to the DHW-related functions.

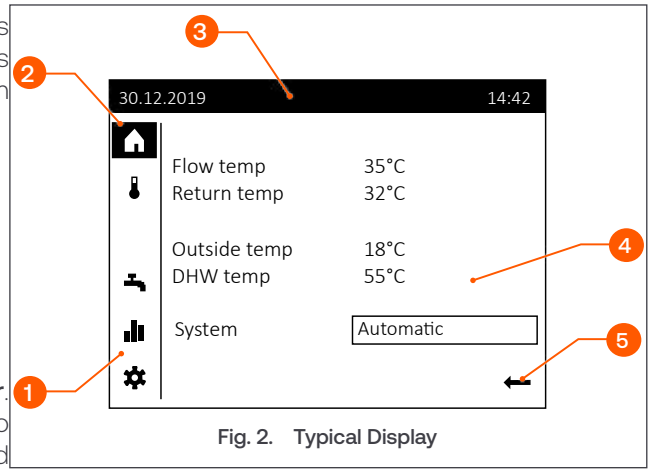


Fig. 2. Typical Display

Info. Gives access to messages (history, errors, etc.), system information and consumption information.

Service/settings. Gives access to setting options on device or system, allows to operate special operations (e.g. for maintenance work) and allows to log in, in expert view (access to additional pages for the Installer only).

Diagnostics (Expert only). Analyze and test info on the system.

Adjust/repair (Expert only). Allows to adjust the parameters in the 'Complete parameter list', and to access the commissioning wizard.

Symbols appearing in the **horizontal status bar**:

Alarm. Indicates an error in the system.

Maintenance/Special operations. It indicates the presence of a maintenance message or special operation feedback.

Manual mode. Indicates that the operating modes on the topic pages are set to manual.

User type. This symbol with number 1, 2 or 3 indicates the access level:

1 - End user/commissioning
2 - Heating engineer/installer
3 - OEM

Producer. This symbol indicates the main producer (e.g. oil/gas boiler, heat pump) that is currently switched on.

Symbols and indications In the **work area**:

abc — Selected item (text or icon)

abc — Activated item (text or icon)

Back To go back to higher level in the menu

To return to the vertical menu bar icons

Symbols used in the manual to illustrate the **operation of the selector**:

turn the selector to the left or to the right

depress shortly the rotary selector

depress the rotary selector for more than 3 seconds.

Boiler Settings for the Installer

Access Levels

Three different levels of settings are available for the Installer : End user level, Commissioning level and Engineer level. A fourth level, OEM, is only accessible at factory level, through the use of a restricted code.

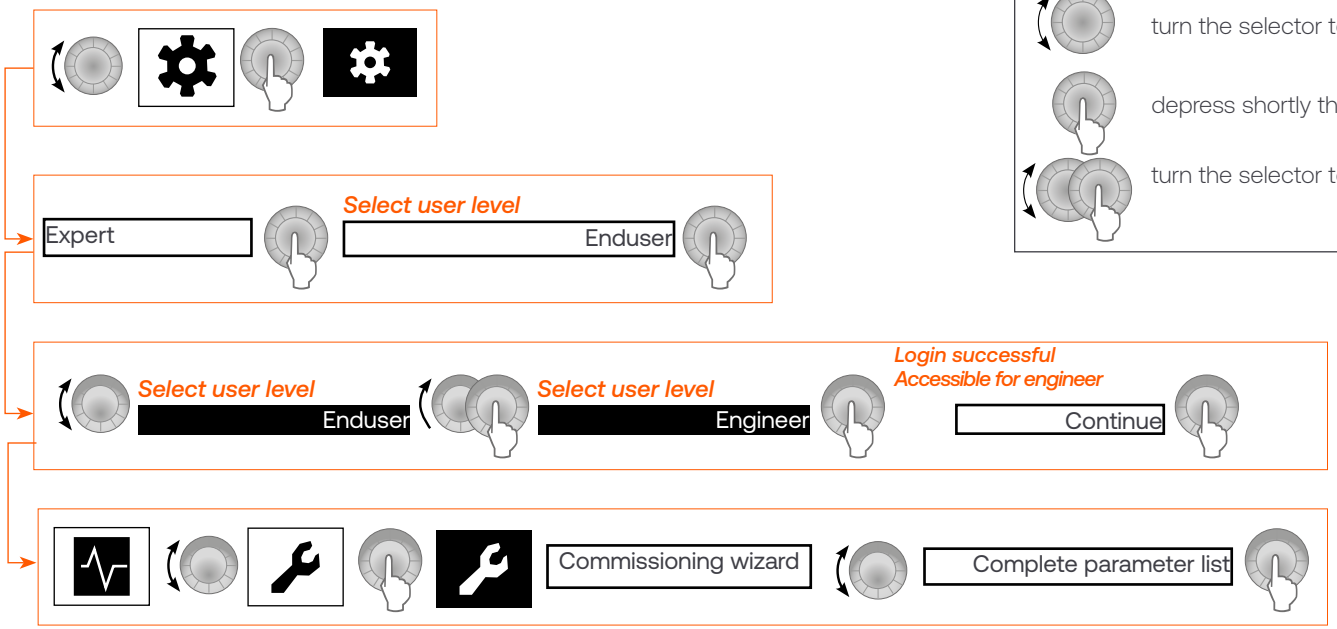
Depending on the year of built, some small differences can occur, and in the most recent versions:

- ***a password may be required to access the Engineer level and the login will be indicated as unsuccessful if you do not enter it. In that case, please contact your AIC representative for more information.***
- ***some menu names are slightly different, but have the same function***

Each level allows to set certain specific parameters or program lines, according to the installed circuits in the system.

To access the Engineer level, proceed as follows:

Selecting the User Level



Symbols used for the **operation of the selector**:

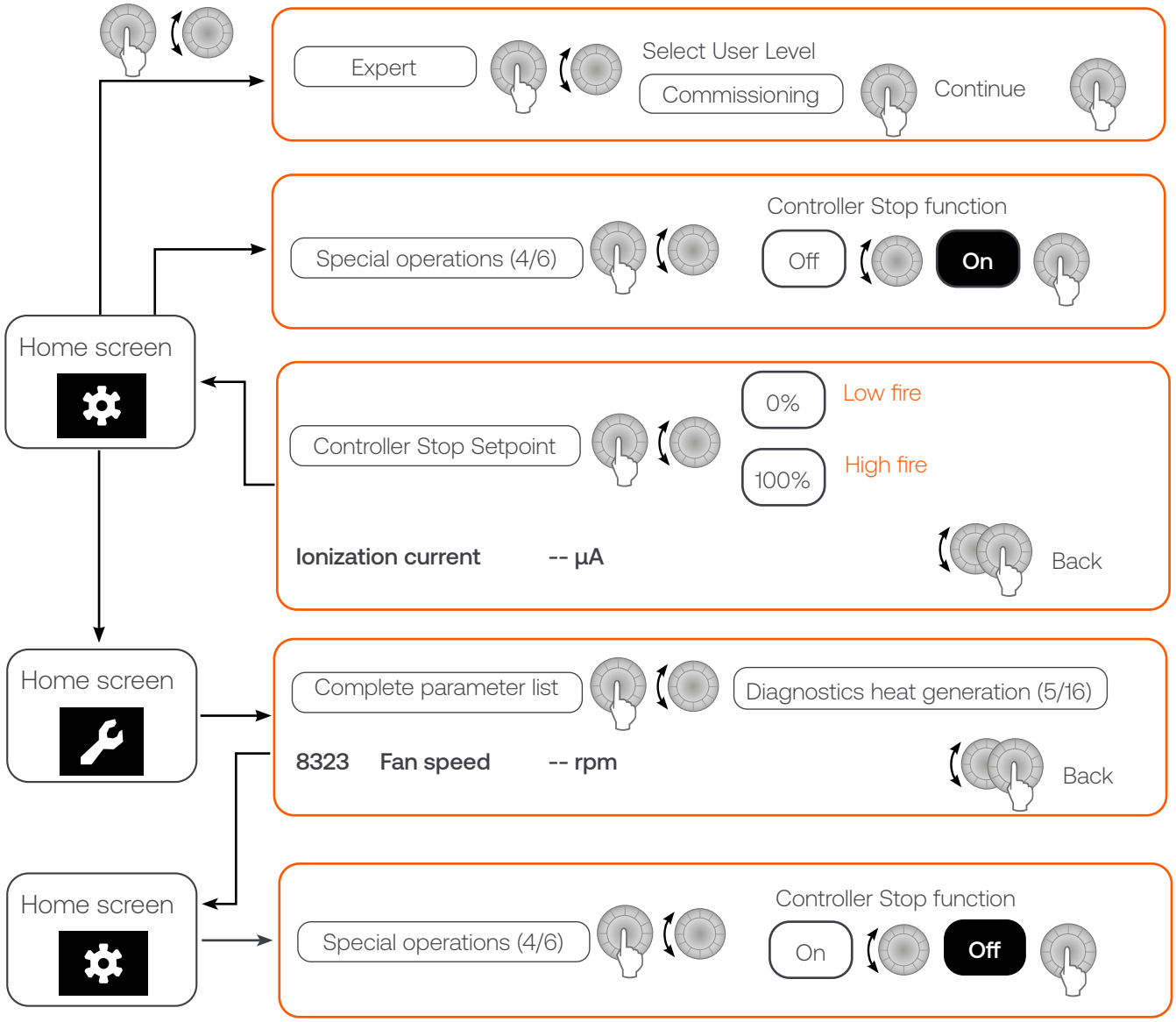
turn the selector to the left or to the right.

depress shortly the rotary selector.

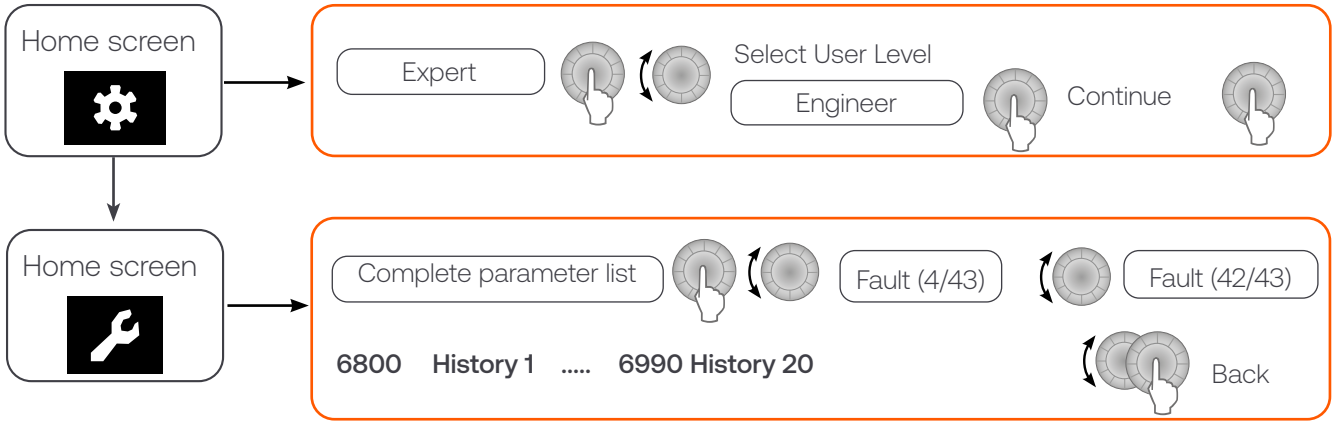
turn the selector to adjust the value, then depress the selector to validate.

Quick access to functions for the Installer

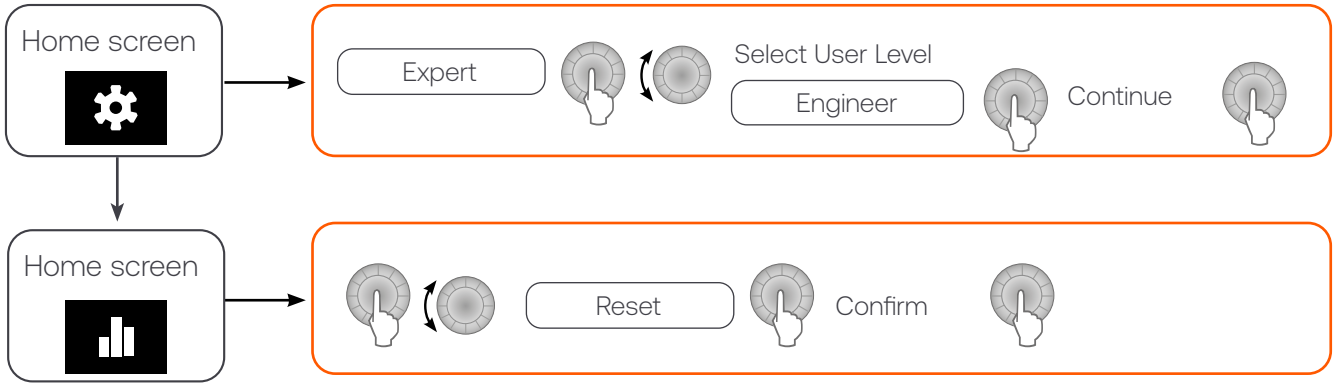
Setting to Low/High Fire - Reading Ionization current and fan speed

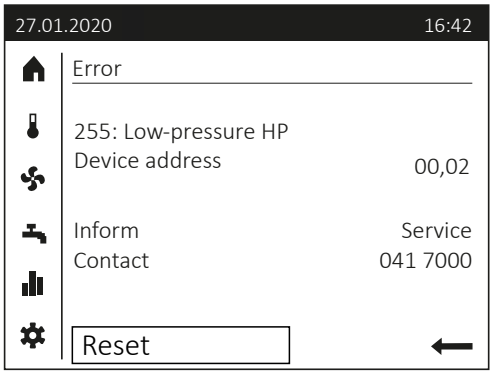


Reading the Error History



Performing Reset after an Interactive Error



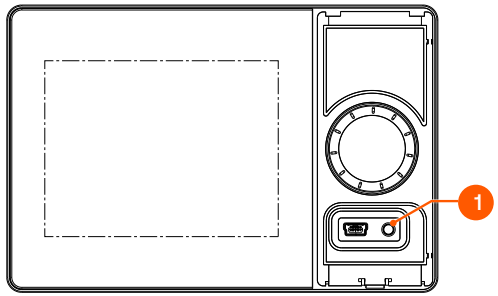


Performing Reset after a Locking Error

A locking error:

- remains saved even if the power supply (mains) is off.
- requires unlocking even after the fault has been solved.
- If error still persists, remove first the error.

1. Remove the side cover using the tip of a screwdriver.
2. Depress the Unlock button (**1**) using a sharp object (e.g. pen point) for 0,4 to 10 seconds.
3. The message "! Reset" appears on the screen.



4. If the problem is still present, call your AIC representative.

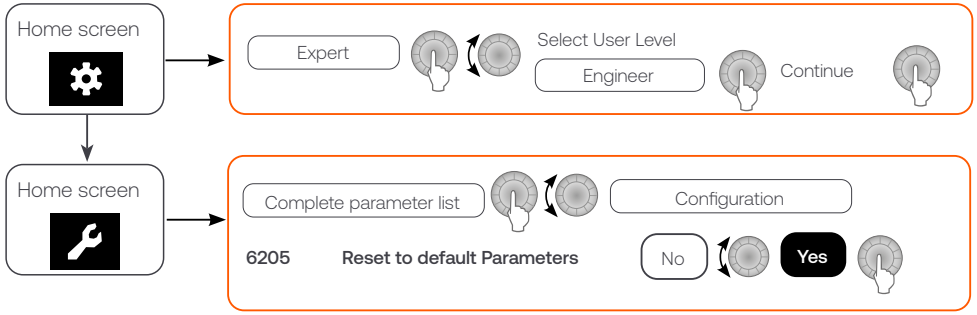
Resetting to Factory Defaults

If necessary for later reference and before resetting to factory defaults, make sure to write down the existing settings.

All resettable parameters can be reset to their default values, i.e. the values uploaded in the controller in factory. The list of factory settings is indicated in the table on ***page 10*** for Nesta Chrome, CoilMaster and Texas appliances, and in the table on ***page 60*** for TMU.

Some menus and function are not resettable:

- ***Time of day and date***
- ***Operator section***
- ***Wireless and all Time programs***
- ***Setpoint – Manual control***



- Once the value is set to "***Yes***", wait for a few seconds until it changes back automatically to "***No***".

Make sure to wait for the value to turn back to "No", or the appliance will not be reset to factory settings.

- Turn off the appliance using the appliance on/off button, then restart. The appliance will restart with the factory defaults.
- Refer to the appliance manual for more information on startup and commissioning procedures.

Menus and Settings

The following table contains most of the menus and sub-menus for the installer (End user, Commissioning and Engineer levels), and their corresponding program number.

- ▷ *Certain functions will only be displayed according to the heating system configuration and the components/accessories installed in the system.*
- ▷ *In the diagnostic menus, values depend on the final setup of the system. Therefore, if a component is connected, information displayed can be "On" or "Off" or a value/unit, but if no component is connected, "No function" will be displayed, and only the unit without value will be indicated.*
- ▷ *In case of doubt regarding the required setting or the default value of a parameter, please contact your AIC representative.*

Top menu	Pgm No.	Submenu 1	Submenu 2	Default		
				Nesta Chrome	CoilMaster	Texas
Time of day and date	1	▶ Time		01:00 (hh:min)		
		▶ Date		01.01 (dd.mm)		
	5	▶ Start of summertime		25.03 (dd.mm)		
	6	▶ End of summertime		25.10 (dd.mm)		
Operator section	20	▶ Language	▷ English - Deutsch - Français - Italiano - Nederlands - Español - Portuguese - Dansk - Suomi - Svenska - Polski - Slovensky - Česky - Slovenščina - русский - Magyar - Ελληνικά - Türkce - Serbian - Lietuvių	English		
	40	▶ Used as	▷ Operator unit 1 ▷ Operator unit 2 ▷ Operator unit 3	Operator unit 1		
	42	▶ Assignment device 1	▷ Zone 1 ▷ Zone 1 and 2 ▷ Zone 1 and 3 ▷ All zones	All zones		
	44	▶ Operation Zone 2	▷ Jointly with zone 1 ▷ Independently	Jointly with zone 1		
	46	▶ Operation Zone 3	▷ Jointly with zone 1 ▷ Independently	Jointly with zone 1		
	48	▶ Warmer/cooler device 1	▷ None ▷ For zone 1 only ▷ For all assigned zones	For zone 1 only		
	70	▶ Software version				

Top menu	Pgm No.	Submenu 1	Submenu 2	Default Nesta Chrome	Default CoilMaster	Default Texas
Time Prog heating circuit 1		*Time Program* ▸ Set Time Program				
	516	▸ Default values	▹ No ▹ Yes		No	
Time Prog heating circuit 2		*Time Program* ▸ Set Time Program				
	536	▸ Default values	▹ No ▹ Yes		No	
Time Program 3/HC3		*Time Program* ▸ Set Time Program				
	556	▸ Default values	▹ No ▹ Yes		No	
Time Program 4/DHW		*Time Program* ▸ Set Time Program				
	576	▸ Default values	▹ No ▹ Yes		No	
Time Program 5		*Time Program* ▸ Set Time Program				
	616	▸ Default values	▹ No ▹ Yes		No	
Heating circuit 1	710	▸ Comfort Setpoint			20.0°C	
	712	▸ Reduced setpoint			16.0°C	
	714	▸ Frost protection setpoint			10°C	
	716	▸ Comfort setpoint max			35.0°C	
	720	▸ Heating curve slope			1.5	
	721	▸ Heating curve displacement			0°C	
	726	▸ Heating curve adaptation	▹ Off ▹ On		Off	

Top menu	Pgm No.	Submenu 1	Submenu 2	Default Nesta Chrome	Default CoilMaster	Default Texas
Heating circuit 1 (Cont'd)	730	▸ Summer/winter heating limit		18.0°C		
	732	▸ 24-hour heating limit		-3°C		
	733	▸ Ext'n 24-hour heating limit	▹ No ▹ Yes	Yes	—	Yes
	740	▸ Flow temp setpoint min		8°C	—	8°C
	741	▸ Flow temp setpoint max		80°C		90°C
	742	▸ Flow temp setpoint room stat		65°C		50°C
	744	▸ Swi-on ratio room stat		50%		Unused
	746	▸ Delay heat request		0 s	—	0 s
	750	▸ Room influence		20%		
	760	▸ Room temp limitation		1.0°C	—	1.0°C
	761	▸ Heating limit room controller		16%		Unused
	770	▸ Boost heating		5°C		
	780	▸ Quick setback	▹ Off ▹ To reduced setpoint ▹ To frost Prot setpoint	To reduced setpoint		
	790	▸ Optimum start control max		0 min	—	0 min
	791	▸ Optimum stop control max		0 min	—	0 min
	800	▸ Reduced setp increase start		-5°C		Unused
	801	▸ Reduced setp increase end		-15°C	—	-15°C
	809	▸ Continuous pump operation	▹ No ▹ Yes	No	—	No
	820	▸ Overtemp prot pump circuit	▹ Off ▹ On	On	—	On
	830	▸ Mixing valve boost		5°C	—	5°C
	832	▸ Actuator type	▹ 2 position ▹ 3 position	3 position	—	3 position
	833	▸ Switching differential 2-pos		2.0°C	—	2.0°C

Top menu	Pgm No.	Submenu 1	Submenu 2	Default Nesta Chrome	Default CoilMaster	Default Texas
Heating circuit 1 (Cont'd)	834	▸ Actuator running time		120 s	—	120 s
	835	▸ Mixing valve Xp		32°C	—	32°C
	836	▸ Mixing valve Tn		120s	—	120s
	850	▸ Floor curing function	▹ Off ▹ Functional heating ▹ Curing heating ▹ Functional/Curing heating ▹ Curing/Functional heating ▹ Manually	Off	—	Off
	851	▸ Floor curing setp manually		25°C	—	25°C
	855	▸ Floor curing setp current / Floor curing day current		unused	—	unused
	856	▸ Floor curing day current		unused	—	unused
	861	▸ Excess heat draw	▹ Off ▹ Heating mode ▹ Always	Always	—	Always
	870	▸ With buffer	▹ No ▹ Yes	Yes		
	872	▸ With prim contr/system pump	▹ No ▹ Yes	Yes	—	Yes
	880	▸ Pump speed reduction	▹ Operating level ▹ Characteristic ▹ Temp differential nominal	Characteristic	—	Characteristic
	881	▸ Starting speed		100%	—	100%
	882	▸ Pump speed min		50%	—	50%
	883	▸ Pump speed max		100%	—	100%
	888	▸ Curve readj. at 50% speed		33%	—	33%
	889	▸ Filter time const speed ctrl		5 min	—	5 min
	890	▸ Flow setp readj speed ctrl	▹ No ▹ Yes	Yes	—	Yes
	898	▸ Operating level changeover	▹ Frost protection ▹ Reduced ▹ Comfort	Reduced	—	Reduced
	900	▸ Optg mode changeover	▹ None ▹ Protection ▹ Reduced ▹ Comfort ▹ Automatic	Protection	—	Protection

Top menu	Pgm No.	Submenu 1	Submenu 2	Default Nesta Chrome	Default CoilMaster	Default Texas
Heating Circuit 2	1010	▸ Comfort Setpoint		20.0°C		
Domestic Hot Water	1610	▸ Nominal setpoint		55°C	65°C	70°C
	1612	▸ Reduced setpoint		40°C	35°C	40°C
	1620	▸ Release	▹ 24h/day ▹ Time programs HCs ▹ Time program 4/DHW	Time programs HCs	Time program 4/DHW	24h/day
	1630	▸ Charging priority	▹ Absolute ▹ Shifting ▹ None ▹ MC shifting, PC absolute	MC shifting, PC absolute	None	MC shifting, PC absolute
	1640	▸ Legionella function	▹ Off ▹ Periodically ▹ Fixed weekday	Fixed weekday	Off	Fixed weekday
	1641	▸ Legionella funct periodically	▹ 1 ▹ ... ▹ 7	3		1
	1642	▸ Legionella funct weeday	▹ Monday ▹ ... ▹ Sunday	Monday		Sunday
	1644	▸ Legionella funct time	▹ 00:00 ▹ ... ▹ 23:59	--:--		00:10
	1645	▸ Legionella funct setpoint	▹ --°C	65°C		70°C
	1646	▸ Legionella funct duration	▹ --min	30 min		10 min
	1647	▸ Legionella funct circ pump	▹ Off ▹ On	On		
	1660	▸ Circulating pump release	▹ Time program 3/HCP ▹ DHW release ▹ Time program 4/DHW ▹ Time program 5	DHW release		
	1661	▸ Circulating pump cycling	▹ Off ▹ On	On	Off	On
	1663	▸ Circulation setpoint	▹ --°C	45°C		40°C
	1680	▸ Optg mode changeover	▹ Off ▹ On	Off		

Top menu	Pgm No.	Submenu 1	Submenu 2	Default Nesta Chrome	Default CoilMaster	Default Texas
Consumer circuit 1	1859	▸ Flow temp setp cons request	▹ ---°C	70°C	60°C	70°C
	1874	▸ DHW charging priority	▹ No ▹ Yes	Yes		
	1875	▸ Excess heat draw	▹ off ▹ on	On		
	1878	▸ With buffer	▹ No ▹ Yes	Yes		
	1880	▸ With prim contr/system pump	▹ No ▹ Yes	Yes		
Consumer circuit 2	1909	▸ Flow temp setp cons request	▹ ---°C	70°C		
Boiler	2203	▸ Release below outside temp		0°C		Unused
	2208	▸ Full charging buffer	▹ Off ▹ On	Off		
	2210	▸ Setpoint min		40°C	20°C	8°C
	2212	▸ Setpoint max		85°C	CM 35-45 : 90°C CM 60 to 120: 93°C	95°C
	2214	▸ Setpoint manual control		NC 60-120 : 60°C NC 150 : 80°C	CM 35-45 : 65°C CM 60 to 120: 60°C	
	2217	▸ Setpoint frost protection		5°C		
	2241	▸ Burner running time min		3 min		0 min
	2243	▸ Burner off time min		3 min		0 min
	2245	▸ SD burner off time		15°C		
	2250	▸ Pump overrun time		5 min		0 min
	2253	▸ Pump overr time after DHW		3 min	0 min	
	2270	▸ Return setpoint min		8°C		

Top menu	Pgm No.	Submenu 1	Submenu 2	Default		
				Nesta Chrome	CoilMaster	Texas
Boiler (Cont'd)	2301	▸ Boiler pump on heat gen lock	▹ Off ▹ On	Off		
	2305	▸ Impact heat generation lock	▹ None ▹ Heating mode only ▹ Heating and DHW mode	Heating mode only		
	2316	▸ Temp differential max		20°C	0°C	Unused
	2317	▸ Temp differential nominal		20°C		
	2320	▸ Pump modulation	▹ None ▹ Demand ▹ Boiler setpoint ▹ Temp differential nominal ▹ Burner output	None		
	2321	▸ Starting speed		100%		
	2322	▸ Pump speed min		100%		40%
	2323	▸ Pump speed max		100%		
	2330	▸ Output nominal		-- kW		
	2331	▸ Output basic stage		-- kW		
	2334	▸ Output at pump speed min		0%		
	2335	▸ Output at pump speed max		100%		
	2441	▸ Fan speed heating max		-- rpm		
	2442	▸ Fan speed full charging max		-- rpm		
	2444	▸ Fan speed DHW max		-- rpm		
	2445	▸ Fan shutdown heating mode	▹ Off ▹ On	Off		
	2446	▸ Fan shutdown delay		3 s		
	2450	▸ Controller delay	▹ Off ▹ Heating mode only ▹ DHW mode only ▹ Heating and DHW mode	Heating and DHW mode	Heating mode only	
	2452	▸ Controller delay speed		-- rpm		
	2453	▸ Controller delay duration		6 s	3 s	10 s
	2454	▸ Switching diff on HCs		4°C	4°C	1°C
	2455	▸ Switching diff off min HCs		2°C	1°C	
	2456	▸ Switching diff off max HCs		5°C	2°C	1°C

Top menu	Pgm No.	Submenu 1	Submenu 2	Default Nesta Chrome	Default CoilMaster	Default Texas
Boiler (Cont'd)	2457	▸ Setting time HCs			10min	
	2460	▸ Switching diff on DHW		4°C	0°C	2°C
	2461	▸ Switching diff off min DHW		2°C	CM 35 to 80 :6°C CM 100-120 : 4°C	2°C
	2462	▸ Switching diff off max DHW		5°C	CM 35 to 80 :6°C CM 100-120 : 4°C	4°C
	2463	▸ Setting time DHW		10 min	1min	5 min
	2470	▸ Delay heat req special op			0 s	
	2473	▸ Flue gas temp output red		100°C	92°C	105°C
	2474	▸ Flue gas temp swi-off limit		110°C	99°C	110°C
	2550	▸ Gas energy metering	▹ Off ▹ On	On		
	2551	▸ Gas energy metering readj		1		1000
	2560	▸ Off delay flue gas damper		30 s		
	2630	▸ Auto deaeration procedure	▹ Off ▹ On	off		
Instantaneous water heater	5420	▸ Flow setpoint boost		—	0°C	—
	5429	▸ Switching diff		—	CM 35-45-100-120 : 5°C CM 60 to 80 : 6°C	—
	5444	▸ Threshold flow detection		—	CM 35-45 : 3l/min CM 60 to 80 : 6l/min CM 100-120 :10l/min	—
	5445	▸ Switching diff flow detection		—	CM 35-45 : 1l/min CM 60 to 120 : 2l/min	—
	5450	▸ Gradient end cons		—	0.25K/s	—
	5451	▸ Grad start cons keep hot		—	-1.00K/s	—
	5452	▸ Gradient start cons		—	-1.00K/s	—
	5455	▸ Setp readj cons 40°C		—	0°C	—
	5456	▸ Setp radj cons 60°C		—	0°C	—
	5460	▸ Setpoint keep hot		—	60°C	—

Top menu	Pgm No.	Submenu 1	Submenu 2	Default Nesta Chrome	Default CoilMaster	Default Texas
Instantaneous water heater (Cont'd)	5461	▸ Readj setp keep hot 40°C		—	0°C	—
	5462	▸ Readj setp keep hot 60°C		—	0°C	—
	5464	▸ Keep hot release	▹ 24h/day ▹ DHW release ▹ Time program 3/HC3 ▹ Time program 4/DHW ▹ Time program 5	—	DHW release	—
	5468	▸ Min cons time for keep hot		—	0s	—
	5470	▸ Keep hot time wo heating		—	1440min	—
	5471	▸ Keep hot time with heating		—	0min	—
	5472	▸ Pump overrun time keep hot		—	0min	—
	5473	▸ Pump overrun time keep hot		—	30 s	—
	5475	▸ Control sensor keep hot	▹ Boiler sensor B2 ▹ Return sensor B7 ▹ DHW outlet sensor B38	—	Return sensor B7	—
	5482	▸ Flow switch time cons		—	3 s	—
	5530	▸ Pump speed min		—	40%	—
	5531	▸ Pump speed max		—	100%	—
	5537	▸ Starting speed		—	100%	—
	5550	▸ Aqua booster	▹ No ▹ Yes ▹ Yes, wo gradient detection	—	No	—
General Functions	5570	▸ Temp diff on dT contr 1			20°C	
	5571	▸ Temp diff off dT contr 1			10°C	
	5572	▸ On temp min dT contr 1			0°C	

Top menu	Pgm No.	Submenu 1	Submenu 2	Default Nesta Chrome	Default CoilMaster	Default Texas
General Functions (Cont'd)	5573	▸ Sensor 1 dT controller 1	▹ None ▹ DHW sensor B31 ▹ Collector sensor B6 ▹ Return sensor B7 ▹ DHW circulation sensor B39 ▹ Buffer sensor B4 ▹ Buffer sensor B41 ▹ Flue gas temp sensor B8 ▹ Common flow sensor B10 ▹ Solid fuel boiler sensor B22 ▹ DHW charging sensor B36 ▹ Buffer sensor B42 ▹ Common return sensor B73 ▹ Cascade return sensor B70 ▹ Swimming pool sensor B13 ▹ Solar flow sensor B63 ▹ Solar return sensor B64 ▹ DHW outlet sensor B38 ▹ Primary exch sensor B26 ▹ Boiler sensor B2 ▹ Solar sensor ext exch B62 ▹ DHW sensor B3 ▹ Outside sensor B9 ▹ Primary contr sensor B15 ▹ Room sensor B5 ▹ Room sensor B52 ▹ Room sensor B53 ▹ Flow sensor HC1 B1 ▹ Flow sensor HC2 B12 ▹ Flow sensor HC3 B14	None	None	None
	5574	▸ Sensor 2 dT controller 1	*Same as Pgm Nb 5573*	None		
	5575	▸ On time min dT contr 1		0 s		
	5577	▸ Pump/valve kick K21	▹ Off ▹ On	On		
	5580	▸ Temp diff on dT contr 2		20°C		
	5581	▸ Temp diff off dT contr 2		10°C		
	5582	▸ On temp min dT contr 2		0°C		
	5583	▸ Sensor 1 dT controller 2	*Same as Pgm Nb 5573*	None		
	5584	▸ Sensor 2 dT controller 2	*Same as Pgm Nb 5573*	None		

Top menu	Pgm No.	Submenu 1	Submenu 2	Default Nesta Chrome	Default CoilMaster	Default Texas
General Functions (Cont'd)	5585	▸ On Time Min dT contr 2		0s		
	5587	▸ Pump/valve kick K22	▹ Off ▹ On	On		
Configuration ?	5710	▸ Heating circuit 1	▹ Off ▹ On	Off		
	5711	▸ Cooling circuit 1	▹ Off ▹ 4-pipe system cooling	Off		
	5715	▸ Heating Circuit 2	▹ Off ▹ On	Off		
	5721	▸ Heating Circuit 3	▹ Off ▹ On	Off		
	5730	▸ DHW sensor	▹ DHW sensor B3 ▹ Thermostat ▹ DHW outlet sensor B38	DHW sensor B3	DHW outlet sensor B38	DHW sensor B3
	5731	▸ DHW controlling element	▹ No charging request ▹ Charging pump ▹ Diverting valve	Charging pump		
	5732	▸ Pump off change div valve		0 s		
	5733	▸ Delay pump off		0 s		
	5734	▸ Basic position DHW div valve	▹ Last request ▹ Heating Circuit ▹ DHW	Last request		
	5736	▸ DHW separate circuit	▹ Off ▹ On	On		Off
	5737	▸ Optg action DHW div valve	▹ Position on DHW ▹ Position on heating circuit	Position on CH	Position on DHW	
	5738	▸ Midposition DHW div valve	▹ Off ▹ On	Off		
	5774	▸ Ctrl boiler pump/DHW valve	▹ All requests ▹ Request HC1/DHW only	All requests		
	5775	▸ Boiler pump with DHW	▹ Off ▹ On	On	Off	On
	5840	▸ Solar controlling element	▹ Charging pump ▹ Diverting valve	Diverting valve		Charging pump

Top menu	Pgm No.	Submenu 1	Submenu 2	Default Nesta Chrome	Default CoilMaster	Default Texas
Configuration (Cont'd)	5841	▸ External solar exchanger	▹ Jointly ▹ DHW storage tank ▹ Buffer storage tank	Jointly		
	5870	▸ Combi storage tank	▹ No ▹ Yes	No		
	5890	▸ Relay output QX1	▹ None ▹ Circulating pump Q4 ▹ El imm heater DHW K6 ▹ Collector pump Q5 ▹ Cons circuit pump VK1 Q15 ▹ Boiler pump Q1 ▹ Bypass pump Q12 ▹ Alarm output K10 ▹ 2nd pump speed HC1 Q21 ▹ 2nd pump speed HC2 Q22 ▹ 2nd pump speed HC3 Q23 ▹ Heat circuit pump HC3 Q20 ▹ Cons circuit pump VK2 Q18 ▹ System pump Q14 ▹ Heat gen shutoff valve Y4 ▹ Solid fuel boiler pump Q10 ▹ Time setting 5 K13 ▹ Buffer return valve Y15 ▹ Solar pump ext exch K9 ▹ Solar ctrl elem buffer K8 ▹ Solar ctrl elem swi pool K18 ▹ Swimming pool pump Q19 ▹ Cascade pump Q25 ▹ St tank transfer pump Q11 ▹ DHW mixing pump Q35 ▹ DHW interm circ pump Q33 ▹ Heat request K27 ▹ Refrigeration request K28 ▹ Heat circuit pump HC1 Q2 ▹ Heat circuit pump HC2 Q6 ▹ DHW ctrl elem Q3 ▹ Instant HW ctrl element Q34 ▹ Water refill K34 ▹ 2nd boiler pump speed Q27 ▹ Status output K35 ▹ Status information K36 ▹ Flue gas damper K37 ▹ Fan shutdown K38 ▹ dT controller 1 K21 ▹ dT controller 2 K22	Boiler pump Q1	Cons circuit pump VK1 Q15	None
	5891	▸ Relay output QX2	*Same as Pgm Nb 5890*	Heat circuit pump HC1 Q2	None	Boiler pump Q1

Top menu	Pgm No.	Submenu 1	Submenu 2	Default		
				Nesta Chrome	CoilMaster	Texas
Configuration (Cont'd)	5892	▸ Relay output QX3	*Same as Pgm Nb 5890*	DHW ctrl elem Q3	Instant WH ctrl elem Q34	None
	5894	▸ Relay output QX4	▹ None ▹ Heat gen shutoff valve Y4 ▹ Buffer return valve Y15 ▹ Solar ctrl elem buffer K8 ▹ Solar ctrl elem swi pool K18 ▹ DHW ctrl lem Q3 ▹ Instant WH ctrl elem Q34	None		DHW ctrl elem Q3
	5930	▸ Sensor input BX1	▹ None ▹ DHW sensor B31 ▹ Collector sensor B6 ▹ DHW circulation sensor B39 ▹ Buffer sensor B4 ▹ Buffer sensor B41 ▹ Flue gas temp sensor B8 ▹ Common flow sensor B10 ▹ Solid fuel boiler sensor B22 ▹ DHW charging sensor B36 ▹ Buffer sensor B42 ▹ Common return sensor B73 ▹ Cascade return sensor B70 ▹ Swimming pool sensor B13 ▹ Solar flow sensor B63 ▹ Solar return sensor B64 ▹ Primary exch sensor B26 ▹ Special temp sensor 1 ▹ Special temp sensor 2	Common flow sensor B10	None	
	5931	▸ Sensor input BX2	*Same as Pgm Nb 5930*	None		
	5932	▸ Sensor input BX3	*Same as Pgm Nb 5930*	Flue gas temp sensor B8		
	5933	▸ Sensor input BX4	*Same as Pgm Nb 5930*	-		

Top menu	Pgm No.	Submenu 1	Submenu 2	Default		
				Nesta Chrome	CoilMaster	Texas
Configuration (Cont'd)	5950	▸ Function input H1	▹ None ▹ Optg mode change HCs+ DHW ▹ Optg mode changeover DHW ▹ Optg mode changeover HCs ▹ Optg mode changeover HC1 ▹ Optg mode changeover HC2 ▹ Optg mode changeover HC3 ▹ Heat generation lock ▹ Error/alarm message ▹ Consumer request VK1 ▹ Consumer request VK2 ▹ Release swi pool source htg ▹ Excess heat discharge ▹ Release swi pool solar ▹ Operating level DHW ▹ Operating level HC1 ▹ Operating level HC2 ▹ Operating level HC3 ▹ Room thermostat HC1 ▹ Room thermostat HC2 ▹ Room thermostat HC3 ▹ DHW flow switch ▹ DHW thermostat ▹ Pulse count ▹ Checkb sign flue gas damper ▹ Start prevention ▹ Boiler flow switch ▹ Boiler pressure switch ▹ Consumer request VK1 10V ▹ Consumer request VK2 10V ▹ Pressure measurement 10V ▹ Output request 10V	None		
	5951	▸ Contact type H1	▹ NC ▹ NO	Normally open (NO)		NC
	5953	▸ Voltage value 1 H1		0.5V		0V
	5954	▸ Function value 1 H1		0		
	5955	▸ Voltage value 2 H1		4.3 V		0V
	5956	▸ Function value 2 H1		60		0
	5960	▸ Function input H3	*Same as Pgm Nb 5950*	Pressure measurement 10V		None
	5961	▸ Contact type H3	▹ NC ▹ NO	Normally open (NO)		

Top menu	Pgm No.	Submenu 1	Submenu 2	Default Nesta Chrome	Default CoilMaster	Default Texas
Configuration (Cont'd)	5963	▸ Voltage value 1 H3		0.5 V		0V
	5964	▸ Function value 1 H3		0		0
	5965	▸ Voltage value 2 H3		4.3 V		0V
	5966	▸ Function value 2 H3		60		0
	5970	▸ Function input H4	▹ None ▹ Optg mode change HCs+ DHW ▹ Optg mode changeover DHW ▹ Optg mode changeover HCs ▹ Optg mode changeover HC1 ▹ Optg mode changeover HC2 ▹ Optg mode changeover HC3 ▹ Heat generation lock ▹ Error/alarm message ▹ Consumer request VK1 ▹ Consumer request VK2 ▹ Release swi pool source htg ▹ Excess heat discharge ▹ Release swi pool solar ▹ Operating level DHW ▹ Operating level HC1 ▹ Operating level HC2 ▹ Operating level HC3 ▹ Room thermostat HC1 ▹ Room thermostat HC2 ▹ Room thermostat HC3 ▹ DHW flow switch ▹ DHW thermostat ▹ Pulse count ▹ Checkb sign flue gas damper ▹ Start prevention ▹ Boiler flow switch ▹ Boiler pressure switch ▹ Flow measurement Hz	None	Flow measurement Hz	Start prevention
	5971	▸ Contact type H4	▹ NC ▹ NO		NC	
	5973	▸ Frequency value 1 H4		0	CM 35-45: 24 CM 60-120:14	0
	5974	▸ Function value 1 H4		0	CM 35-45: 18 CM 60-120:50	0
	5975	▸ Frequency value 2 H4		0	CM 35-45: 380 CM 60-120:230	0

Top menu	Pgm No.	Submenu 1	Submenu 2	Default Nesta Chrome	Default CoilMaster	Default Texas
Configuration (Cont'd)	5976	▸ Function value 2 H4		0	CM 35-45: 320 CM 60-120:850	0
	5977	▸ Function input H5	▹ None ▹ Optg mode change HCs+ DHW ▹ Optg mode changeover DHW ▹ Optg mode changeover HCs ▹ Optg mode changeover HC1 ▹ Optg mode changeover HC2 ▹ Optg mode changeover HC3 ▹ Heat generation lock ▹ Error/alarm message ▹ Consumer request VK1 ▹ Consumer request VK2 ▹ Release swi pool source htg ▹ Excess heat discharge ▹ Release swi pool solar ▹ Operating level DHW ▹ Operating level HC1 ▹ Operating level HC2 ▹ Operating level HC3 ▹ Room thermostat HC1 ▹ Room thermostat HC2 ▹ Room thermostat HC3 ▹ DHW flow switch ▹ DHW thermostat ▹ Pulse count ▹ Checkb sign flue gas damper ▹ Start prevention ▹ Boiler flow switch ▹ Boiler pressure switch	Room thermostat HC1	Consumer request VK1	Start prevention
	5978	▸ Contact type H5	▹ NC ▹ NO	NO		

Top menu	Pgm No.	Submenu 1	Submenu 2	Default		
				Nesta Chrome	CoilMaster	Texas
Configuration (Cont'd)	6008	▸ Function Input H6	▹ None ▹ Optg mode change HCs+ DHW ▹ Optg mode changeover DHW ▹ Optg mode changeover HCs ▹ Optg mode changeover HC1 ▹ Optg mode changeover HC2 ▹ Optg mode changeover HC3 ▹ Heat generation lock ▹ Error/alarm message ▹ Consumer request VK1 ▹ Consumer request VK2 ▹ Release swi pool source htg ▹ Excess heat discharge ▹ Release swi pool solar ▹ Operating level DHW ▹ Operating level HC1 ▹ Operating level HC2 ▹ Operating level HC3 ▹ Room thermostat HC1 ▹ Room thermostat HC2 ▹ Room thermostat HC3 ▹ DHW flow switch ▹ DHW thermostat ▹ Pulse count ▹ Checkb sign flue gas damper ▹ Start prevention ▹ Boiler flow switch ▹ Boiler pressure switch ▹ Gas pressure switch	None		
	6009	▸ Contact type H6	▹ NC ▹ NO	NC		NO

Top menu	Pgm No.	Submenu 1	Submenu 2	Default		
				Nesta Chrome	CoilMaster	Texas
Configuration (Cont'd)	6011	▸ Function input H7	▹ None ▹ Optg mode change HCs+ DHW ▹ Optg mode changeover DHW ▹ Optg mode changeover HCs ▹ Optg mode changeover HC1 ▹ Optg mode changeover HC2 ▹ Optg mode changeover HC3 ▹ Heat generation lock ▹ Error/alarm message ▹ Consumer request VK1 ▹ Consumer request VK2 ▹ Release swi pool source htg ▹ Excess heat discharge ▹ Release swi pool solar ▹ Operating level DHW ▹ Operating level HC1 ▹ Operating level HC2 ▹ Operating level HC3 ▹ Room thermostat HC1 ▹ Room thermostat HC2 ▹ Room thermostat HC3 ▹ DHW flow switch ▹ DHW thermostat ▹ Pulse count ▹ Checkb sign flue gas damper ▹ Start prevention ▹ Boiler flow switch ▹ Boiler pressure switch	None		
	6012	▸ Contact type H7	▹ NC ▹ NO	NO		
	6020	▸ Function Extension Module 1	▹ None ▹ Multifunctional ▹ Heating circuit 1 ▹ Heating circuit 2 ▹ Heating circuit 3 ▹ Return temp controller ▹ Solar DHW ▹ Primary contr/system pump	None		
	6021	▸ Function Extension Module 2	*Same as Pgm Nb 6020*	None		
	6022	▸ Function Extension Module 3	*Same as Pgm Nb 6020*	None		
	6024	▸ Funct input EX21 Module 1	▹ None ▹ Limit thermostat HC	None		
	6026	▸ Funct input EX21 Module 2	*Same as Pgm Nb 6024*	None		

Top menu	Pgm No.	Submenu 1	Submenu 2	Default		
				Nesta Chrome	CoilMaster	Texas
Configuration (Cont'd)	6028	▸ Funct input EX21 Module 3	*Same as Pgm Nb 6024*		None	
	6030	▸ Relay output QX21 module 1	▹ None ▹ Circulating pump Q4 ▹ El imm heater DHW K6 ▹ Collector pump Q5 ▹ Cons circuit pump VK1 Q15 ▹ Boiler pump Q1 ▹ Bypass pump Q12 ▹ Alarm output K10 ▹ 2nd pump speed HC1 Q21 ▹ 2nd pump speed HC2 Q22 ▹ 2nd pump speed HC3 Q23 ▹ Heat circuit pump HC3 Q20 ▹ Cons circuit pump VK2 Q18 ▹ System pump Q14 ▹ Heat gen shutoff valve Y4 ▹ Solid fuel boiler pump Q10 ▹ Time program 5 K13 ▹ Buffer return valve Y15 ▹ Solar pump ext exch K9 ▹ Solar ctrl elem buffer K8 ▹ Solar ctrl elem swi pool K18 ▹ Swimming pool pump Q19 ▹ Cascade pump Q25 ▹ St tank transfer pump Q11 ▹ DHW mixing pump Q35 ▹ DHW interm circ pump Q33 ▹ Heat request K27 ▹ Refrigeration request K28 ▹ Heat circuit pump HC1 Q2 ▹ Heat circuit pump HC2 Q6 ▹ DHW ctrl elem Q3 ▹ Instant heater ctrl elem Q34 ▹ Water filling K34 ▹ 2nd boiler pump speed Q27 ▹ Status output K35 ▹ Status information K36 ▹ Fan shutdown K38 ▹ dT controller 1 K21 ▹ dT controller 2 K22		None	
	6031	▸ Relay output QX22 module 1	*Same as Pgm Nb 6030*		None	

Top menu	Pgm No.	Submenu 1	Submenu 2	Default: Nesta Chrome	Default: CoilMaster	Default: Texas
Configuration (Cont'd)	6032	▸ Relay output QX23 module 1	*Same as Pgm Nb 6030*		None	
	6033	▸ Relay output QX21 module 2	*Same as Pgm Nb 6030*		None	
	6034	▸ Relay output QX22 module 2	*Same as Pgm Nb 6030*		None	
	6035	▸ Relay output QX23 module 2	*Same as Pgm Nb 6030*		None	
	6036	▸ Relay output QX21 module 3	*Same as Pgm Nb 6030*		None	
	6037	▸ Relay output QX22 module 3	*Same as Pgm Nb 6030*		None	
	6038	▸ Relay output QX23 module 3	*Same as Pgm Nb 6030*		None	
	6040	▸ Sensor input BX21 module 1	▹ None ▹ DHW sensor B31 ▹ Collector sensor B6 ▹ DHW circulating sensor B39 ▹ Buffer sensor B4 ▹ Buffer sensor B41 ▹ Flue gas temp sensor B8 ▹ Segment flow sensor B10 ▹ Solid fuel boiler sensor B22 ▹ DHW charging sensor B36 ▹ Buffer sensor B42 ▹ Segment return sensor B73 ▹ Cascade return sensor B70 ▹ Pool sensor B13 ▹ Solar flow sensor B63 ▹ Solar return sensor B64 ▹ Primary exch sensor B26 ▹ Special temp sensor 1 ▹ Special temp sensor 2		None	
	6041	▸ Sensor input BX22 module 1	*Same as Pgm Nb 6040*		None	
	6042	▸ Sensor input BX21 module 2	*Same as Pgm Nb 6040*		None	
	6043	▸ Sensor input BX22 module 2	*Same as Pgm Nb 6040*		None	
	6044	▸ Sensor input BX21 module 3	*Same as Pgm Nb 6040*		None	
	6045	▸ Sensor input BX22 module 3	*Same as Pgm Nb 6040*		None	

Top menu	Pgm No.	Submenu 1	Submenu 2	Default		
				Nesta Chrome	CoilMaster	Texas
Configuration (Cont'd)	6046	▸ Funct input H2/H21 modul 1	▹ None ▹ Optg mode change HCs+DHW ▹ Optg mode changeover DHW ▹ Optg mode changeover HCs ▹ Optg mode changeover HC1 ▹ Optg mode changeover HC2 ▹ Optg mode changeover HC3 ▹ Heat generation lock ▹ Error/alarm message ▹ Consumer request VK1 ▹ Consumer request VK2 ▹ Release swi pool source heat ▹ Excess heat discharge ▹ Release swi pool solar ▹ Operating level DHW ▹ Operating level HC1 ▹ Operating level HC2 ▹ Operating level HC3 ▹ Room thermostat HC1 ▹ Room thermostat HC2 ▹ Room thermostat HC3 ▹ DHW flow switch ▹ DHW thermostat ▹ Limit thermostat HC ▹ Start prevention ▹ Boiler flow switch ▹ Boiler pressure switch ▹ Consumer request VK1 10V ▹ Consumer request VK2 10V ▹ Pressure measurement 10V ▹ Output request 10V	None		
	6047	▸ Cont type H2/H21 modul 1	▹ NC ▹ NO	NO		
	6049	▸ Volt val 1 H2/H21 modul 1		0V		
	6050	▸ Funct val 1 H2/H21 modul 1		0		
	6051	▸ Volt val 2 H2/H21 modul 1		0V		
	6052	▸ Funct val 2 H2/H21 modul 1		0		
	6054	▸ Funct input H2/H21 modul 2	*Same as Pgm Nb 6046*	None		
	6055	▸ Cont type H2/H21 modul 2	▹ NC ▹ NO	NO		

Top menu	Pgm No.	Submenu 1	Submenu 2	Default		
				Nesta Chrome	CoilMaster	Texas
Configuration (Cont'd)	6057	▸ Volt val 1 H2/H21 modul 2			0V	
	6058	▸ Funct val 1 H2/H21 modul 2			0	
	6059	▸ Volt val 2 H2/H21 modul 2			0V	
	6060	▸ Funct val 2 H2/H21 modul 2			0	
	6062	▸ Funct input H2/H21 modul 3	*Same as Pgm Nb 6046*		None	
	6063	▸ Cont type H2/H21 modul 3	▹ NC ▹ NO		NO	
	6065	▸ Volt val 1 H2/H21 modul 3			0V	
	6066	▸ Funct val 1 H2/H21 modul 3			0	
	6067	▸ Volt val 2 H2/H21 modul 3			0V	
	6068	▸ Funct val 2 H2/H21 modul 3			0	
	6072	▸ Signal output UX	▹ 0..10V ▹ PWM		PWM	
	6078	▸ Function output UX2	▹ None ▹ Boiler pump Q1 ▹ DHW pump Q3 ▹ DHW interm circ pump Q33 ▹ Heat circuit pump HC1 Q2 ▹ Heat circuit pump HC2 Q6 ▹ Heat circuit pump HC3 Q20 ▹ Collector pump Q5 ▹ Solar pump ext exch K9 ▹ Solar pump buffer K8 ▹ Solar pump swi pool K18 ▹ Instant heater pump Q34 ▹ Solid fuel boiler pump Q10 ▹ Bypass pump Q12 ▹ Burner modulation	None		Boiler pump Q1
	6079	▸ Signal logic output UX2	▹ Standard ▹ Inverted	Inverted		Standard

Top menu	Pgm No.	Submenu 1	Submenu 2	Default Nesta Chrome	Default CoilMaster	Default Texas
Configuration (Cont'd)	6085	▸ Function output P1	▹ None ▹ Boiler pump Q1 ▹ DHW pump Q3 ▹ DHW interm circ pump Q33 ▹ Heat circuit pump HC1 Q2 ▹ Heat circuit pump HC2 Q6 ▹ Heat circuit pump HC3 Q20 ▹ Collector pump Q5 ▹ Solar pump ext exch K9 ▹ Solar pump buffer K8 ▹ Solar pump swi pool K18 ▹ Instant heater pump Q34	None		
	6086	▸ Signal logic output P1	▹ Standard ▹ Inverted	Inverted		
	6089	▸ Function output UX3	*Same as Pgm Nb 6078*	None		
	6090	▸ Signal logic output UX3	▹ Standard ▹ Inverted	Inverted		
	6097	▸ Sensor type collector	▹ NTC ▹ Pt 1000	NTC		
	6098	▸ Readjustm collector sensor		0°C		
	6100	▸ Readjustm outside sensor		0°C		
	6110	▸ Time constant building		15h		
	6116	▸ Time constant setp compens		0min		
	6117	▸ Central setp compensation		20°C		
	6120	▸ Frost protection plant	▹ Off ▹ On	Off		
	6127	▸ Pump/Valve kick duration		30s		
	6200	▸ Save sensors	▹ No ▹ Yes	No		
	6205	▸ Reset to default parameters	▹ No ▹ Yes	No		
	6212	▸ Check no. heat source 1		0		
	6213	▸ Check no. heat source 2		0		
	6215	▸ Check no. storage tank		0		

Top menu	Pgm No.	Submenu 1	Submenu 2	Default		
				Nesta Chrome	CoilMaster	Texas
Configuration (Cont'd)	6217	▸ Check no heating circuit		0		100
	6220	▸ Software version				
	6240	▸ Funct output UX21 module 1	▹ None ▹ Boiler pump Q1 ▹ DHW pump Q3 ▹ DHW interm circ pump Q33 ▹ Heat circuit pump HC1 Q2	None		
	6241	▸ Sign logic out UX21 module 1	▹ Standard ▹ Inverted	Standard		
	6242	▸ Signal output UX21 module 1	▹ 0...10V ▹ PWM	PWM		
	6243	▸ Funct output UX22 module 1		None		
	6244	▸ Sign logic out UX22 module 1	▹ Standard ▹ Inverted	Standard		
	6245	▸ Signal output UX22 module 1	▹ 0...10V ▹ PWM	PWM		
	6246	▸ Funct output UX21 module 2		None		
	6247	▸ Sign logic out UX21 module 2	▹ Standard ▹ Inverted	Standard		
	6248	▸ Signal output UX21 module 2	▹ 0-10 V ▹ PWM	PWM		
	6249	▸ Funct output UX22 module 2	*Same as Pgm Nb 6078*	None		
	6250	▸ Sign logic out UX22 module2	▹ Standard ▹ Inverted	Standard		
	6251	▸ Signal output UX22 module 2	▹ 0-10 V ▹ PWM	PWM		
	6252	▸ Funct output UX21 module 3	*Same as Pgm Nb 6078*	None		
	6253	▸ Sign logic out UX21 module3	▹ Standard ▹ Inverted	Standard		
	6254	▸ Signal output UX21 module 3	▹ 0-10 V ▹ PWM	PWM		
	6255	▸ Funct output UX22 module 3	*Same as Pgm Nb 6078*	None		

Top menu	Pgm No.	Submenu 1	Submenu 2	Default Nesta Chrome	Default CoilMaster	Default Texas
Configuration (Cont'd)	6256	▸ Sign logic out UX22 module3	▹ Standard ▹ Inverted		Standard	
	6257	▸ Signal output UX22 module 3	▹ 0-10 V ▹ PWM		PWM	
	6355	▸ Room controller HC1	▹ internally ▹ externally		internally	
	6356	▸ Room controller HC2	▹ internally ▹ externally		internally	
	6357	▸ Room controller HC3	▹ internally ▹ externally		internally	
LPB system ?	6600	▸ Device address			1	
	6601	▸ Segment address			0	
	6604	▸ Bus power supply function	▹ Off ▹ Automatically		Automatically	
	6605	▸ Bus power supply state	▹ Off ▹ On		On	
	6610	▸ Display system messages	▹ No ▹ Yes		Yes	
	6612	▸ Alarm Delay			10 min	
	6620	▸ Action changeover functions	▹ Segment ▹ System		System	
	6621	▸ Summer changeover	▹ Locally ▹ Centrally		Locally	
	6623	▸ Optg mode changeover	▹ Locally ▹ Centrally		Centrally	
	6624	▸ Manual source lock	▹ Locally ▹ Centrally		Locally	
	6625	▸ Hot water assignment	▹ Local CHs ▹ All CHs in segment ▹ All CHs in system		All CHs in system	
	6630	▸ Cascade master	▹ Always ▹ Automatically		Automatically	

Top menu	Pgm No.	Submenu 1	Submenu 2	Default Nesta Chrome	Default CoilMaster	Default Texas
LPB system (Cont'd)	6631	▸ Ext source in Eco mode	▹ Off ▹ On DHW ▹ On		Off	
	6632	▸ Note OT limit ext source	▹ No ▹ Yes		No	
	6640	▸ Clock mode	▹ Autonomously ▹ Slave without remote setting ▹ Slave with remote setting ▹ Master		Autonomously	
	6650	▸ Outside temp source				
Modbus ?	6651	▸ Slave address			--	
	6652	▸ Baud rate	▹ 1,200 ▹ 2,400 ▹ 4,800 ▹ 9,600 ▹ 19,200		19,200	
	6653	▸ Parity	▹ Even ▹ Odd ▹ None		Even	
	6654	▸ Stop bit	▹ 1 ▹ 2		1	
Fault ?	6705	▸ SW Diagnostic code				
	6706	▸ Burn ctrl phase lockout pos				
	6710	▸ Reset alarm relay	▹ No ▹ Yes		No	
	6740	▸ Flow temp 1 alarm			120 min	
	6741	▸ Flow temp 2 alarm			120 min	
	6742	▸ Flow temp 3 alarm			120 min	
	6743	▸ Boiler temp alarm			120 min	
	6745	▸ Hot water charging alarm			8 h	
	6800	▸ History 1	▹ Date / Time ▹ Fault code 1			
	6805	▸ SW diagnostic code 1	▹ Burner control phase 1			

Top menu	Pgm No.	Submenu 1	Submenu 2	Default		
				Nesta Chrome	CoilMaster	Texas
Fault (Cont'd)	6990	▸ History 20	▹ Date / Time ▹ Fault code 20			
	6995	▸ SW diagnostic code 20	▹ Burner control phase 20			
Service/special operation ?	7040	▸ Burner hours interval			1500 h	
	7041	▸ Burn hrs since maintenance	▹ Reset? Yes/No		0 h	
	7042	▸ Burner start interval			9000	
	7043	▸ Burn starts since maint	▹ Reset? Yes/No		0	
	7044	▸ Maintenance interval			24 months	
	7045	▸ Time since maintenance	▹ Reset? Yes/No		0 months	
	7050	▸ Fan speed ionization current			0 rpm	
	7051	▸ Message ionization current	▹ No ▹ Yes		No	
	7130	▸ Chimney sweep function	▹ Off ▹ On		Off	
	7131	▸ Burner output	▹ Partial load ▹ Full load ▹ Max heating load		Max heating load	
	7140	▸ Manual control	▹ Off ▹ On		Off	
	7143	▸ Controller stop function	▹ Off ▹ On		Off	
	7145	▸ Controller stop setpoint			0%	
	7146	▸ Deaeration function	▹ Off ▹ On		Off	
	7147	▸ Type of venting	▹ None ▹ Heating circuit continuous ▹ Heating circuit cycled ▹ DHW continuous ▹ DHW cycled		None	
	7167	▸ Commissioning wizard	▹ Off ▹ On	Off	On	
	7170	▸ Telephone customer service			---	
	7250	▸ PStick storage pos				

Top menu	Pgm No.	Submenu 1	Submenu 2	Default Nesta Chrome	Default CoilMaster	Default Texas
Service/special operation (Cont'd)	7252	▸ PStick command	▹ No operation ▹ Reading from stick ▹ Writing on stick	No operation		
	7253	▸ Pstick progress		0%		
Input/output test ?	7700	▸ Relay test	▹ No test ▹ Everything off ▹ Relay output QX1 ▹ Relay output QX2 ▹ Relay output QX3 ▹ Relay output QX4 ▹ Relay output QX21 module 1 ▹ Relay output QX22 module 1 ▹ Relay output QX23 module 1 ▹ Relay output QX21 module 2 ▹ Relay output QX22 module 2 ▹ Relay output QX23 module 2 ▹ Relay output QX21 module 3 ▹ Relay output QX22 module 3 ▹ Relay output QX23 module 3	No test		
	7713	▸ Output test P1		%		
	7714	▸ PWM signal P1		%		
	7716	▸ Output test UX2				
	7717	▸ Output signal UX2				
	7724	▸ Output test UX3				
	7725	▸ Output signal UX3				
	7730	▸ Outside temp B9		°C		
	7750	▸ Hot water temp B3/B38		°C		
	7760	▸ Boiler temp B2		°C		
	7820	▸ Sensor temp BX1		°C		
	7821	▸ Sensor temp BX2		°C		
	7822	▸ Sensor temp BX3		°C		
	7823	▸ Sensor temp BX4		°C		
	7830	▸ Sensor temp BX21 module 1		°C		
	7831	▸ Sensor temp BX22 module 1		°C		

Top menu	Pgm No.	Submenu 1	Submenu 2	Default Nesta Chrome	Default CoilMaster	Default Texas
Input/output test (Cont'd)	7832	▸ Sensor temp BX21 module 2			°C	
	7833	▸ Sensor temp BX22 module 2			°C	
	7834	▸ Sensor temp BX21 module 3			°C	
	7835	▸ Sensor temp BX22 module 3			°C	
	7840	▸ Voltage signal H1				
	7841	▸ Contact state H1	▹ Open ▹ Closed		Open	
	7845	▸ Voltage signal H2 module 1	*Parameters see Contact state H1*			
	7846	▸ Contact state H2 module 1	▹ Open ▹ Closed	Open	Closed	
	7848	▸ Voltage signal H2 module 2	*Parameters see Contact state H1*			
	7849	▸ Contact state H2 module 2	▹ Open ▹ Closed		Open	
	7851	▸ Voltage signal H2 module 3	*Parameters see Contact state H1*			
	7852	▸ Contact state H2 module 3	▹ Open ▹ Closed		Open	
	7854	▸ Voltage signal H3				
	7855	▸ Contact state H3	▹ Open ▹ Closed		Closed	
	7860	▸ Contact state H4	▹ Open ▹ Closed		Closed	
	7862	▸ Frequency H4				
	7865	▸ Contact state H5	▹ Open ▹ Closed		Open	
	7872	▸ Contact state H6	▹ Open ▹ Closed		Open	
	7874	▸ Contact state H7	▹ Open ▹ Closed		Open	
	7950	▸ Input EX21 module 1				
	7951	▸ Input EX21 module 2				
	7952	▸ Input EX21 module 3				

Top menu	Pgm No.	Submenu 1	Submenu 2	Default Nesta Chrome	Default CoilMaster	Default Texas
State	8000	▸ State heating circuit 1				
	8001	▸ State heating circuit 2				
	8002	▸ State heating circuit 3				
	8003	▸ State DHW				
	8005	▸ State boiler				
	8007	▸ State solar				
	8008	▸ State solid fuel boiler				
	8009	▸ State burner				
	8010	▸ State buffer				
	8011	▸ State swimming pool				
Diagnostics heat generation	8304	▸ Boiler pump Q1		Off / No function		
	8308	▸ Boiler pump speed		%		
	8310	▸ Boiler temp. ▸ Control temperature		°C		
	8311	▸ Boiler setpoint ▸ Control setpoint		°C		
	8312	▸ Boiler switching point		°C		
	8313	▸ Switch point DHW operation				
		▸ Control sensor	▹ None ▹ Boiler sensor B2 ▹ Return sensor B7 ▹ DHW ▹ charging sensor B36 ▹ DHW outlet sensor B38 ▹ DHW circulation sensor B39 ▹ Cascade sensor B10/B70	None		
	8314	▸ Boiler return temp		°C		
	8315	▸ Boiler return temp set				
	8316	▸ Flue gas temp		°C		
	8318	▸ Flue gas temp max		°C		
	8321	▸ Primary exchanger temp		°C		

Refer to "Operating States - Codes and Meanings" on page 61 for a detail of the codes displayed on the screen.

Top menu	Pgm No.	Submenu 1	Submenu 2	Default Nesta Chrome	Default CoilMaster	Default Texas
Diagnostics heat generation (Cont'd)	8323	▸ Fan speed			rpm	
	8324	▸ Setpoint fan			rpm	
	8325	▸ Current fan control			rpm	
	8326	▸ Burner modulation			%	
	8327	▸ Water pressure			bar	
	8329	▸ Ionization current			µA	
	8330	▸ Hours run 1st stage,			h	
	8331	▸ Start countrr 1st stage				
	8338	▸ Hours run HW			h	
	8339	▸ Boiler throughput			h	
	8366	▸ Boiler throughput			l/min	
	8378	▸ Total gas energy heating			kWh	
	8379	▸ Total gas energy DHW			kWh	
	8380	▸ Total gas energy			kWh	
	8381	▸ Gas energy heating	▹ Reset		kWh	
	8382	▸ Gas energy DHW	▹ Reset		kWh	
	8383	▸ Gas energy			kWh	
	8390	▸ Current phase number				
	8526	▸ Solar Gain 24 Hour			kWh	
	8527	▸ Total Solar Gain	▹ Reset		kWh	
	8530	▸ Hours run solar	▹ Reset		h	
	8531	▸ Hours run collect overtemp	▹ Reset		h	
	8532	▸ Hours run collector pump	▹ Reset		h	
Diagnostics consumers ?	8700	▸ Outside temp			°C	
	8701	▸ Outside temp min	▹ Reset		°C	
	8702	▸ Outside temp max	▹ Reset		°C	
	8703	▸ Outside temp attenuated	▹ Reset		°C	
	8704	▸ Outside temp composite				

Top menu	Pgm No.	Submenu 1	Submenu 2	Default Nesta Chrome	Default CoilMaster	Default Texas
Diagnostics consumers (Cont'd)	8730	▸ Heating circuit pump 1	▹ Off ▹ On	Off / No function (if not connected)		
	8731	▸ Heat circ mix valve 1 open	▹ Off ▹ On	Off / No function (if not connected)		
	8732	▸ Heat circ mix valve 1 close	▹ Off ▹ On	Off / No function (if not connected)		
	8735	▸ Speed heating circuit pump 1		%		
	8740	▸ Room temp 1 ▸ Room setpoint 1		°C		
	8743	▸ Flow temps setpoint 1		°C		
	8749	▸ Room thermostat 1	▹ No demand ▹ Demand	No demand		
	8760	▸ Heating circuit pump 2	▹ Off ▹ On	Off / No function (if not connected)		
	8761	▸ Heat circ mix valve 2 open	▹ Off ▹ On	Off / No function (if not connected)		
	8762	▸ Heat circ mix valve 2 close	▹ Off ▹ On	Off / No function (if not connected)		
	8765	▸ Speed heating circuit pump 2		%		
	8770	▸ Room temp 2		°C		
	8771	▸ Room setpoint 2		**°C**		
	8773	▸ Flow temp 2		°C		
	8774	▸ Flow temp setpoint 2				
	8779	▸ Room thermostat 2	▹ No demand ▹ Demand	No demand		
	8875	▸ Flow temp setp VK1		°C		
	8950	▸ Common flow temp		°C		
	8951	▸ Common flow temp setpoint				
	8952	▸ Common return temp		°C		
	8962	▸ Common output setpoint		%		
	8980	▸ Buffer temp 1,		°C		
	8981	▸ Buffer setpoint	▹ Reset	°C		

Top menu	Pgm No.	Submenu 1	Submenu 2	Default Nesta Chrome	Default CoilMaster	Default Texas
Diagnostics consumers (Cont'd)	8982	▸ Buffer temp 2		°C		
	9005	▸ Water pressure H1		bar		
	9006	▸ Water pressure H2		bar		
	9016	▸ Special temp 1		°C		
	9017	▸ Special temp 2		°C		
	9031	▸ Relay output QX1	▹ Off ▹ On	Off / No function (if not connected)		
	9032	▸ Relay output QX2	▹ Off ▹ On	Off / No function (if not connected)		
	9033	▸ Relay output QX3	▹ Off ▹ On	Off / No function (if not connected)		
	9053	▸ Relay output QX21 module 2	▹ Off ▹ On	Off / No function (if not connected)		
	9054	▸ Relay output QX22 module 2	▹ Off ▹ On	Off / No function (if not connected)		
	9055	▸ Relay output QX23 module 2	▹ Off ▹ On	Off / No function (if not connected)		
	9056	▸ Relay output QX21 module 3	▹ Off ▹ On	Off / No function (if not connected)		
	9057	▸ Relay output QX22 module 3	▹ Off ▹ On	Off / No function (if not connected)		
	9058	▸ Relay output QX23 module 3	▹ Off ▹ On	Off / No function (if not connected)		
Burner Control ?	9500	▸ Prepurge time		15 s	5 s	10 s
	9501	▸ Prepurge time min		15 s	5 s	10 s
	9504	▸ Required output prepurging		-- rpm		
	9505	▸ Req speed prepurging min		-- rpm		
	9506	▸ speed tolerance prepurging		-- rpm		
	9512	▸ Required output ignition		-- rpm		
	9513	▸ Required speed ignition max		-- rpm		
	9514	▸ Speed tolerance ignition		-- rpm		

Top menu	Pgm No.	Submenu 1	Submenu 2	Default Nesta Chrome	Default CoilMaster	Default Texas
Burner Control (Cont'd)	9517	▸ Preignition time		1 s		—
	9518	▸ Safety time		3.6s		—
	9519	▸ Safety time with ignition		3.0s		—
	9524	▸ Required speed LF		-- rpm		
	9525	▸ Required speed LF min		-- rpm		
	9526	▸ Speed tolerance LF		-- rpm		
	9529	▸ Required speed HF		-- rpm		
	9530	▸ Required speed HF max		-- rpm		
	9531	▸ Speed tolerance HF		-- rpm		
	9534	▸ Optg time with ignition load		3.0 s		—
	9540	▸ Postpurge time		5 s		—
	9541	▸ Postpurge time TL max		3 min		—
	9542	▸ Postpurge time min		5 s	0 s	
	9551	▸ Required speed stop max		500 rpm		—
	9610	▸ Capacity		Above 120 kW		—
	9611	▸ LP configuration		LP mode 5		
	9612	▸ GP configuration		GP connected		
	9614	▸ Postpurging level	▹ Run ▹ Prepurge	Prepurge		—
	9615	▸ Forced prepurging on error	▹ Off ▹ On	On		
	9616	▸ Max speed		-- rpm	9000 rpm	-- rpm
	9630	▸ Speed Kp		1.13		
	9631	▸ Speed Tn		8 s		
	9632	▸ Speed Tv		0 s		
	9650	▸ Chimney drying	▹ Off ▹ On	Off		
	9651	▸ Req. speed chimney drying		-- rpm		

Top menu	Pgm No.	Submenu 1	Submenu 2	Defaults TMU
Time of day and date	1	▸ Time		01:00 (hh:min)
		▸ Date		01.01 (dd.mm)
	5	▸ Start of summertime		25.03 (dd.mm)
	6	▸ End of summertime		25.10 (dd.mm)
Operator section	20	▸ Language	▹ English - Deutsch - Français - Italiano - Nederlands - Español - Portuguese - Dansk - Suomi - Svenska - Polski - Slovensky - Česky - Slovenščina - русский - Magyar - Ελληνικά - Türkce - Serbian - Lietuvių	English
	40	▸ Used as	▹ Operator unit 1 ▹ Operator unit 2 ▹ Operator unit 3	Operator unit 1
	42	▸ Assignment device 1	▹ Zone 1 ▹ Zone 1 and 2 ▹ Zone 1 and 3 ▹ All zones	All zones
	44	▸ Operation Zone 2	▹ Jointly with zone 1 ▹ Independently	Jointly with zone 1
	46	▸ Operation Zone 3	▹ Jointly with zone 1 ▹ Independently	Jointly with zone 1
	48	▸ Warmer/cooler device 1	▹ None ▹ For zone 1 only ▹ For all assigned zones	For zone 1 only
	70	▸ Software version		
Time Prog Cooling 1	470	Time Program ▸ Set Time Program		
	479	▸ Default values	▹ No ▹ Yes	No
Time Prog cooling 2	480	Time Program ▸ Set Time Program		
	489	▸ Default values	▹ No ▹ Yes	No

Top menu	Pgm No.	Submenu 1	Submenu 2	Defaults TMU
Time Prog cooling 3	490	*Time Program* ▸ Set Time Program		
	499	▸ Default values	▹ No ▹ Yes	No
Time Prog heating circuit 1	500	*Time Program* ▸ Set Time Program		
	516	▸ Default values	▹ No ▹ Yes	No
Time Prog heating circuit 2	520	*Time Program* ▸ Set Time Program		
	536	▸ Default values	▹ No ▹ Yes	No
Time Program 3	540	*Time Program* ▸ Set Time Program		
	556	▸ Default values	▹ No ▹ Yes	No
Time Program 4/DHW	560	*Time Program* ▸ Set Time Program		
	576	▸ Default values	▹ No ▹ Yes	No
Time Prog Ventilation 1	580	*Time Program* ▸ Set Time Program		
	589	▸ Default values	▹ No ▹ Yes	No
Time Prog Ventilation 2	590	*Time Program* ▸ Set Time Program		
	599	▸ Default values	▹ No ▹ Yes	No
Time Program 5	600	*Time Program* ▸ Set Time Program		
	616	▸ Default values	▹ No ▹ Yes	No
Heating circuit 1	710	▸ Comfort Setpoint		21.0°C
	712	▸ Reduced setpoint		19.0°C

Top menu	Pgm No.	Submenu 1	Submenu 2	Defaults TMU
Heating circuit 1 (Cont'd)	714	▸ Frost protection setpoint		10°C
	716	▸ Comfort setpoint max		35.0°C
	720	▸ Heating curve slope		0.8
	721	▸ Heating curve displacement		0°C
	726	▸ Heating curve adaptation	▹ Off ▹ On	Off
	730	▸ Summer/winter heating limit		18.0°C
	732	▸ 24-hour heating limit		-3°C
	733	▸ Ext'n 24-hour heating limit	▹ No ▹ Yes	Yes
	740	▸ Flow temp setpoint min		8°C
	741	▸ Flow temp setpoint max		70°C
	742	▸ Flow temp setpoint room stat		--°C
	744	▸ Swi-on ratio room stat		--%
	750	▸ Room influence		20%
	760	▸ Room temp limitation		1.0°C
	761	▸ Heating limit room controller		6%
	770	▸ Boost heating		--°C
	780	▸ Quick setback	▹ Off ▹ To reduced setpoint ▹ To frost Prot setpoint	To reduced setpoint
	790	▸ Optimum start control max		0 min
	791	▸ Optimum stop control max		0 min
	800	▸ Reduced setp increase start		°C
	801	▸ Reduced setp increase end		-15°C
	820	▸ Overtemp prot pump circuit	▹ Off ▹ On	Off
	830	▸ Mixing valve boost		0°C
	832	▸ Actuator type	▹ 2 position ▹ 3 position	3 position
	833	▸ Switching differential 2-pos		2.0°C

Top menu	Pgm No.	Submenu 1	Submenu 2	Defaults TMU
Heating circuit 1 (Cont'd)	834	▸ Actuator running time		120 s
	835	▸ Mixing valve Xp		24°C
	836	▸ Mixing valve Tn		90s
	850	▸ Floor curing function	▹ Off ▹ Functional heating ▹ Curing heating ▹ Functional/Curing heating ▹ Curing/Functional heating ▹ Manually	Off
	851	▸ Floor curing setp manually		25°C
	861	▸ Excess heat draw	▹ Off ▹ Heating mode ▹ Always	Always
	870	▸ With buffer	▹ No ▹ Yes	Yes
	872	▸ With prim contr/system pump	▹ No ▹ Yes	Yes
	880	▸ Pump speed reduction	▹ Operating level ▹ Characteristic	Characteristic
	881	▸ Starting speed		--%
	882	▸ Pump speed min		40%
	883	▸ Pump speed max		100%
	888	▸ Curve readj. at 50% speed		33%
	890	▸ Flow setp readj speed ctrl	▹ No ▹ Yes	No
	900	▸ Optg mode changeover	▹ None ▹ Protection ▹ Reduced ▹ Comfort ▹ Automatic	Protection
Heating Circuit 2	1010	▸ Comfort Setpoint		21.0°C
Heating Circuit 3	1310	▸ Comfort Setpoint		21.0°C

Top menu	Pgm No.	Submenu 1	Submenu 2	Defaults TMU
Domestic Hot Water	1610	▸ Nominal setpoint		50°C
	1612	▸ Reduced setpoint		40°C
	1620	▸ Release	▹ 24h/day ▹ Time programs HCs ▹ Time program 4/DHW	Time program 4/DHW
	1630	▸ Charging priority	▹ Absolute ▹ Shifting ▹ None ▹ MC shifting, PC absolute	Absolute
	1640	▸ Legionella function	▹ Off ▹ Periodically ▹ Fixed weekday	Off
	1641	▸ Legionella funct periodically	▹ 1 ▹ ... ▹ 7	3
	1642	▸ Legionella funct weeday	▹ Monday ▹ ... ▹ Sunday	Monday
	1644	▸ Legionella funct time	▹ 00:00 ▹ ... ▹ 23:59	--:--
	1645	▸ Legionella funct setpoint	▹ --°C	65°C
	1646	▸ Legionella funct duration	▹ --min	30 min
	1647	▸ Legionella funct circ pump	▹ Off ▹ On	On
	1660	▸ Circulating pump release	▹ Time program HC/CC 3 ▹ DHW release ▹ Time program 4/DHW ▹ Time program 5	Time program HC/CC 3
	1661	▸ Circulating pump cycling	▹ Off ▹ On	On
	1663	▸ Circulation setpoint	▹ --°C	45°C
	1680	▸ Optg mode changeover	▹ Off ▹ On	Off

Top menu	Pgm No.	Submenu 1	Submenu 2	Defaults TMU
Consumer circuit 1	1859	▸ Flow temp setp cons request	▹ ---°C	44°C
	1874	▸ DHW charging priority	▹ No ▹ Yes	Yes
	1875	▸ Excess heat draw	▹ off ▹ on	On
	1878	▸ With buffer	▹ No ▹ Yes	Yes
	1880	▸ With prim contr/system pump	▹ No ▹ Yes	No
Consumer circuit 2	1909	▸ Flow temp setp cons request	▹ ---°C	30°C
Heat pump	2835	▸ Restart lock compressor		60 s
	2840	▸ Switching differential return temperature		5°C
	2841	▸ Keep compressor run time minimum		No
	2842	▸ Compressor running time min		5min
	2843	▸ Compressor off time min		20min
	2844	▸ Switch-off temperature max		60°C
	2845	▸ Reduction switch-off temperature max		0°C
	2855	▸ Switch off temp max HC		
	2903	▸ Release strategy	▹ COP ▹ Energy price ▹ COP and energy price ▹ COP or energy price	COP
	2904	▸ Release of COP		2,6

Top menu	Pgm No.	Submenu 1	Submenu 2	Defaults TMU
Heat pump (Cont'd)	2908	▸ OT limit with DHW charging	▹ Ignore ▹ Note	Note
	2909	▸ Release below outside temp		---°C
	2910	▸ Release above outside temp		4°C
	2911	▸ For forced buffer charging	▹ Locked ▹ Released	Released
	2912	▸ Full charging buffer	▹ Off ▹ On	On
	2922	▸ Condenser overtemp prot	▹ Off ▹ Cooling down ▹ Switch-on lock + cool down	Switch-on lock + cool down
	2923	▸ Condenser protection buffer sensor	▹ None ▹ With B4 ▹ With B41 ▹ With B42	With B41
Supplementary source (Boiler)	3690	▸ Setpoint incr main source		0°C
	3692	▸ With DHW charging	▹ Locked ▹ Substitute ▹ Complement ▹ Instantly ▹ First ▹ Alone	Alone
	3694	▸ OT limit with DHW charging	▹ Ignore ▹ Note	Note
	3695	▸ Supplementary source release with DHW charging	▹ According to release ▹ With load only ▹ With load or heating	According to release
	3696	▸ Supplementary source lock with DHW charging	▹ With end of charging ▹ No heating and B3 hot ▹ Sensor B3 hot	With end of charging
	3697	▸ Supplementary source with DHW push	▹ Off ▹ On	Off
	3698	▸ Supplementary source with warmer/cooler function	▹ Off ▹ On	Off
	3700	▸ Release below outside temp		--°C
	3701	▸ Release above outside temp		--°C
	3704	▸ Supplementary source with heat generation lock	▹ Off ▹ On	Off
	3705	▸ Supplementary source overrun time		5 min

Top menu	Pgm No.	Submenu 1	Submenu 2	Defaults TMU
Supplementary source (Boiler) (Cont'd)	3710	▸ Setpoint min		40°C
	3711	▸ Setpoint max		80°C
	3718	▸ Supplementary source release integral		20°C*min
	3719	▸ Supplementary source reset integral		10°C*min
	3720	▸ Switching integral		50°C*min
	3722	▸ Swiching diff off		15°C
	3723	▸ Locking time		10 min
Buffer storage tank	4705	▸ Forced charging	▹ Off ▹ Demand ▹ Always	Always
	4709	▸ Forced charg setp heat min		45°C
	4710	▸ Forced charg setp heat max		45°C
	4711	▸ Forced charging time		12:00
	4712	▸ Forced charg duration max		1 h
	4720	▸ Automatic producer lock	▹ None ▹ With B4 ▹ With B4 and B42/B41 ▹ With B42 ▹ With B42 and B41 ▹ With B4 and B71	With B4 and B42/B41
	4721	▸ Automatic producer lock switching differential		2°C
	4722	▸ Diff. Buffer/HC temp to producer release		0°C
	4723	▸ Temp diff buffer/CC to source release		0°C
	4724	▸ Min buffer temp while heating mode		40°C
	4739	▸ Buffer stratification protection		Off
	4740	▸ Buffer stratification protect Temp diff max		5°C
	4743	▸ Buffer stratification protect foreseeable time		60s
	4744	▸ Buffer stratification prot integral action time		120s

Top menu	Pgm No.	Submenu 1	Submenu 2	Defaults TMU
Buffer storage tank (Cont'd)	4749	▸ Min charging setpoint solar		55°C
	4750	▸ Charging temp max		60°C
	4755	▸ Return cooling temperature buffer		20°C
	4756	▸ Buffer return cooling DHW/HC	▹ Off ▹ On	Off
Instantaneous water heater	5530	▸ Pump speed min		0%
	5531	▸ Pump speed max		100%
General Functions	5570	▸ Temp diff on dT contr 1		20°C
	5571	▸ Temp diff off dT contr 1		10°C
	5572	▸ On temp min dT contr 1		0°C
	5575	▸ On time min dT contr 1		0 s
	5577	▸ Pump/valve kick K21	▹ Off ▹ On	On
	5580	▸ Temp diff on dT contr 2		20°C
	5581	▸ Temp diff off dT contr 2		10°C
	5582	▸ On temp min dT contr 2		0°C
	5585	▸ On Time Min dT contr 2		0s
	5587	▸ Pump/valve kick K22	▹ Off ▹ On	On
Configuration	5710	▸ Heating circuit 1	▹ Off ▹ On	On
	5711	▸ Cooling circuit 1	▹ Off ▹ 4-pipe system cooling	Off
	5715	▸ Heating Circuit 2	▹ Off ▹ On	Off
	5721	▸ Heating Circuit 3	▹ Off ▹ On	Off
	5731	▸ DHW controlling element	▹ No charging request ▹ Charging pump ▹ Diverting valve	Charging pump
	5734	▸ Basic position DHW div valve	▹ Last request ▹ Heating Circuit ▹ DHW	Heating circuit

Top menu	Pgm No.	Submenu 1	Submenu 2	Defaults TMU
Configuration (Cont'd)	5736	▸ DHW separate circuit	▹ Off ▹ On	On
	5840	▸ Solar controlling element	▹ Charging pump ▹ Diverting valve	Charging pump
	5841	▸ External solar exchanger	▹ Jointly ▹ DHW storage tank ▹ Buffer storage tank	Jointly
	5870	▸ Combi storage tank	▹ No ▹ Yes	No
	5890	▸ Relay output QX1	▹ None ▹ Process revers valve Y22 ▹ Hot-gas temp K31 ▹ El imm heater 1 flow K25 ▹ El imm heater 2 flow K26 ▹ Div valve cool source Y28 ▹ System pump Q14 ▹ Cascade pump Q25 ▹ Heat gen shutoff valve Y4 ▹ El imm heater DHW K6 ▹ Circulating pump Q4 ▹ St tank transfer pump Q11 ▹ DHW interm circ pump Q33 ▹ DHW mixing pump Q35 ▹ Collector pump Q5 ▹ Collector pump 2 Q16 ▹ Solar pump ext exch K9 ▹ Solar ctrl elem buffer K8 ▹ Solar ctrl elem swi pool K18 ▹ El imm heater buffer K16 ▹ Cons circuit pump VK1 Q15 ▹ Cons circuit pump VK2 Q18 ▹ Swimming pool pump Q19 ▹ Heat circuit pump HC3 Q20 ▹ 2nd pump speed HC1 Q21 ▹ 2nd pump speed HC2 Q22 ▹ 2nd pump speed HC3 Q23 ▹ Div valve HC/CC1 Y21 ▹ Air dehumidifier K29 ▹ Heat request K27 ▹ Refrigeration request K28 ▹ Alarm output K10 ▹ Time program 5 K13 ▹ Heat circuit pump HC1 Q2 ▹ DHW ctrl elem Q3 ▹ Source pump Q8/fan K19 ▹ Condenser pump Q9 ▹ Compressor stage 1 K1 ▹ Suppl source control K32	Suppl source control K32

Top menu	Pgm No.	Submenu 1	Submenu 2	Defaults TMU
Configuration (Cont'd)		▸ Relay output QX1 (Cont'd)	▹ Heat circuit pump HC2 Q6 ▹ Instant WH ctrl elem Q34 ▹ Common flow valve Y13 ▹ Div valve HC/CC2 Y45 ▹ Div valve HC/CC3 Y46 ▹ Cooling circ pump CC1 Q24 ▹ Cooling circ pump CC2 Q28 ▹ Cooling circ pump CC3 Q29 ▹ Solid fuel boiler pump Q10 ▹ Flue gas relay K17 ▹ Assisted firing fan K30 ▹ Crankcase heater K40 ▹ Drip tray heater K41 ▹ Valve evaporator K81 ▹ Valve EVI K82 ▹ Valve injection capillary K83 ▹ dT controller 1 K21 ▹ dT controller 2 K22 ▹ Ventilation fan 1 K51 ▹ Ventilation fan 2 K52 ▹ Ventilation fan 3 K53 ▹ Ventilation bypass 1 K54 ▹ Ventilation bypass 2 K55 ▹ Ventilation bypass 3 K56 ▹ Outside air temp contr Q17 ▹ Source int circ pump Q81 ▹ Source int circ div Y81 ▹ DHW heat pump K33 ▹ System pump 2 Q44 ▹ Div valve cooling cond Y27 ▹ Div valve cooling flow Y29 ▹ Cond reversing valve Y91 ▹ Buffer reversing valve Y47 ▹ Status info heating K42 ▹ Status info cooling K43 ▹ Status info DHW charg K44 ▹ Heat/cool circ pump 1 Q2 ▹ Heat/cool circ pump 2 Q6 ▹ Heat/cool circ pump 3 Q20 ▹ Status info generation K45 ▹ Fault info generation K46	
	5891	▸ Relay output QX2	*Same as Pgm Nb 5890*	Condenser pump Q9
	5892	▸ Relay output QX3	*Same as Pgm Nb 5890*	Compressor 1 K1
	5894	▸ Relay output QX4	*Same as Pgm Nb 5890*	DHW actuator Q3
	5895	▸ Relay output QX5	*Same as Pgm Nb 5890*	None
	5896	▸ Triac output ZX6	*Same as Pgm Nb 5890*	None

Top menu	Pgm No.	Submenu 1	Submenu 2	Defaults TMU
Configuration (Cont'd)	5930	▸ Sensor input BX1	▹ None ▹ Buffer sensor B4 ▹ Buffer sensor B41 ▹ Collector sensor B6 ▹ DHW sensor B31 ▹ Refrig sensor liquid B83 ▹ DHW charging sensor B36 ▹ DHW outlet sensor B38 ▹ DHW circulation sensor B39 ▹ Swimming pool sensor B13 ▹ Collector sensor 2 B61 ▹ Solar flow sensor B63 ▹ Solar return sensor B64 ▹ Buffer sensor B42 ▹ Common flow sensor B10 ▹ Cascade return sensor B70 ▹ Special temp sensor 1 ▹ Special temp sensor 2 ▹ DHW sensor B3 ▹ HP flow sensor B21 ▹ HP return sensor B71 ▹ Hot-gas sensor B81 ▹ Outside sensor B9 ▹ Source inlet sensor B91 ▹ Source outl sens B92/B84 ▹ Room sensor B5 ▹ Room setp readjustment 1 ▹ Room sensor B52 ▹ Room setp readjustment 2 ▹ Room sensor B53 ▹ Room setp readjustment 3 ▹ Flue gas temp sensor B8 ▹ Solid fuel boiler sensor B22 ▹ Solid fuel boil ret sens B72 ▹ Suction gas sensor B85 ▹ Suction gas sensor EVI B86 ▹ Evaporation sensor EVI B87 ▹ DHW prim contr sensor B35 ▹ Outside air sensor B19 ▹ Common flow sensor 2 B11 ▹ Common return sensor B73 ▹ Source int circ flow B93 ▹ Source int circ return B94 ▹ Suction gas sensor cool B88	Buffer sensor B4
	5931	▸ Sensor input BX2	*Same as Pgm Nb 5930*	Buffer sensor B41

Top menu	Pgm No.	Submenu 1	Submenu 2	Defaults TMU
Configuration (Cont'd)	5932	▸ Sensor input BX3	▹ None ▹ Buffer sensor B4 ▹ Buffer sensor B41 ▹ Collector sensor B6 ▹ DHW sensor B31 ▹ Refrig sensor liquid B83 ▹ DHW charging sensor B36 ▹ DHW outlet sensor B38 ▹ DHW circulation sensor B39 ▹ Swimming pool sensor B13 ▹ Collector sensor 2 B61 ▹ Solar flow sensor B63 ▹ Solar return sensor B64 ▹ Buffer sensor B42 ▹ Common flow sensor B10 ▹ Cascade return sensor B70 ▹ Special temp sensor 1 ▹ Special temp sensor 2 ▹ DHW sensor B3 ▹ HP flow sensor B21 ▹ HP return sensor B71 ▹ Hot-gas sensor B81 ▹ Outside sensor B9 ▹ Room sensor B5 ▹ Room setp readjustment 1 ▹ Room sensor B52 ▹ Room setp readjustment 2 ▹ Room sensor B53 ▹ Room setp readjustment 3 ▹ Flue gas temp sensor B8 ▹ Solid fuel boiler sensor B22 ▹ Solid fuel boil ret sens B72 ▹ DHW prim contr sensor B35 ▹ Outside air sensor B19 ▹ Common flow sensor 2 B11 ▹ Common return sensor B73	DHW sensor B31
	5933	▸ Sensor input BX4	*Same as Pgm Nb 5932*	Outside temp sensor B9

Top menu	Pgm No.	Submenu 1	Submenu 2	Defaults TMU
Configuration (Cont'd)	5950	▸ Function input H1	▹ None ▹ Op'mode change zones+DHW ▹ Optg mode changeover DHW ▹ Op'mode changeover zones ▹ Op'mode changeover zone 1 ▹ Op'mode changeover zone 2 ▹ Op'mode changeover zone 3 ▹ Error/alarm message ▹ Consumer request VK1 ▹ Consumer request VK2 ▹ Release swi pool source heat ▹ Release swi pool solar ▹ Operating level DHW ▹ Operating level HC1 ▹ Operating level HC2 ▹ Operating level HC3 ▹ Room thermostat HC1 ▹ Room thermostat HC2 ▹ Room thermostat HC3 ▹ DHW flow switch ▹ Pulse count ▹ Dewpoint monitor ▹ Flow temp setp incr hygro ▹ Swi-on command HP stage 1 ▹ Status info suppl source ▹ Charg prio DHW sol fuel boil ▹ Ventilation switch 1 ▹ Ventilation switch 2 ▹ Ventilation switch 3 ▹ Flow measurement Hz ▹ Consumer request VK1 10V ▹ Consumer request VK2 10V ▹ Pressure measurement 10V ▹ Humidity measurement 10V ▹ Room temp 10V ▹ Flow measurement 10V ▹ Temp measurement 10V ▹ Air quality measurement 10V	Room thermostat HC1
	5951	▸ Contact type H1	▹ NC ▹ NO	NC
	5953	▸ Voltage value 1 H1		0V
	5954	▸ Function value 1 H1		0
	5955	▸ Voltage value 2 H1		10
	5956	▸ Function value 2 H1		100

Top menu	Pgm No.	Submenu 1	Submenu 2	Defaults TMU
Configuration (Cont'd)	5960	▸ Function input H3	*Same as Pgm Nb 5950*	None
	5961	▸ Contact type H3	▹ NC ▹ NO	Normally open (NO)
	5963	▸ Voltage value 1 H3		0V
	5964	▸ Function value 1 H3		0
	5965	▸ Voltage value 2 H3		10V
	5966	▸ Function value 2 H3		100V
	5967	▸ Temperature sensor H3	▹ None ▹ Solar flow sensor B63 ▹ Solar return sensor B64 ▹ HP flow sensor B21 ▹ HP return sensor B71	None
	6070	▸ Function output UX1	▹ None ▹ Source pump Q8/fan K19 ▹ DHW pump Q3 ▹ DHW interm circ pump Q33 ▹ Heat circuit pump HC1 Q2 ▹ Heat circuit pump HC2 Q6 ▹ Heat circuit pump HC3 Q20 ▹ Collector pump Q5 ▹ Solar pump ext exch K9 ▹ Solar pump buffer K8 ▹ Solar pump swi pool K18 ▹ Collector pump 2 Q16 ▹ Instant WH pump Q34 ▹ Solid fuel boiler pump Q10 ▹ Condenser pump Q9 ▹ Heat/cool circ pump 1 Q2 ▹ Heat/cool circ pump 2 Q6 ▹ Heat/cool circ pump 3 Q20 ▹ HP setpoint ▹ Output request ▹ Heat request ▹ Refrigeration request ▹ Compressor modulation ▹ Expansion valve evapor V81 ▹ Expansion valve EVI V82 ▹ Ventilation fan 1 K51 ▹ Ventilation fan 2 K52 ▹ Ventilation fan 3 K53	None
	6071	▸ Signal logic output UX1	▹ Standard ▹ Inverted	Standard

Top menu	Pgm No.	Submenu 1	Submenu 2	Defaults TMU
Configuration (Cont'd)	6072	▸ Signal output UX	▹ 0..10V ▹ PWM	0..10V
	6078	▸ Function output UX2	*Same as Pgm Nb 6070*	Heat Demand
	6079	▸ Signal logic output UX2	▹ Standard ▹ Inverted	Standard
	6080	▸ Signal output UX2	▹ 0..10V ▹ PWM	0..10V
	6089	▸ Function output UX3	*Same as Pgm Nb 6070*	Heat pump setpoint
	6090	▸ Signal logic output UX3	▹ Standard ▹ Inverted	Standard
	6097	▸ Sensor type collector	▹ NTC ▹ Pt 1000	NTC
	6098	▸ Readjustm collector sensor		0°C
	6100	▸ Readjustm outside sensor		`0°C
	6116	▸ Time constant setp compens		0min
	6117	▸ Central setp compensation		20°C
	6118	▸ Setpoint reduction delay		10k/min
	6119	▸ Central setp compens cooling		-5°C
LPB system	6604	▸ Bus power supply function	▹ Off ▹ Automatically	Automatically
	6610	▸ Display system messages	▹ No ▹ Yes	No
	6612	▸ Alarm Delay		-- min
	6620	▸ Action changeover functions	▹ Segment ▹ System	System
	6621	▸ Summer changeover	▹ Locally ▹ Centrally	Locally
	6623	▸ Optg mode changeover	▹ Locally ▹ Centrally	Centrally
	6625	▸ Hot water assignment	▹ All HC/CC locally ▹ All HC/CC in segment ▹ All HC/CC in system	All HC/CC in system
	6630	▸ Cascade master	▹ Always ▹ Automatically	Automatically

Top menu	Pgm No.	Submenu 1	Submenu 2	Defaults TMU
LPB system (Cont'd)	6632	▸ Note OT limit ext source	▹ No ▹ Yes	Yes
	6640	▸ Clock mode	▹ Autonomously ▹ Slave without remote setting ▹ Slave with remote setting ▹ Master	Autonomously
Modbus ?	6651	▸ Slave address		--
	6652	▸ Baud rate	▹ 1,200 ▹ 2,400 ▹ 4,800 ▹ 9,600 ▹ 19,200	9,600
	6653	▸ Parity	▹ Even ▹ Odd ▹ None	None
	6654	▸ Stop bit	▹ 1 ▹ 2	1
Fault ?	6740	▸ Flow temp 1 alarm		-- min
	6741	▸ Flow temp 2 alarm		-- min
	6742	▸ Flow temp 3 alarm		-- min
	6743	▸ Boiler temp alarm		-- min
	6745	▸ Hot water charging alarm		-- min

Operating States - Codes and Meanings

The following tables indicate the meaning of the state codes used for the program lines 8000 to 8011.

Some of these codes are for the installer only, and some are visible to the end user.

The meaning of the codes visible at the end-user and installer levels are shown in italics.

Pgm lines	State code	Meaning
8000 to 8002	3	*Limit thermostat hat cut out*
	4	*Manual control active*
	102	*Floor curing function active*
	56	Overtemperature protection active
	103	Restricted, boiler protection
	104	Restricted, DHW priority
	105	Restricted, buffer priority
	106	Heating mode restricted
	107	*Forced discharging buffer storage tank*
	108	Forced discharging DHW
	109	Forced discharging heat source
	110	*Forced heat release*
	17	Overrun active
	298	*Warmer function active*
	299	*Cooler function active*
	111	Optimum start control + boost heating
	112	Optimum start control
	113	Boost heating
	114	*Heating mode Comfort*
	115	Optimum stop control
	116	*Heating mode Reduced*
	101	Frost protection room active

Pgm lines	State code	Meaning
8000 to 8002	117	Frost protection flow active
	23	Frost protection plant active
	24	*Frost protection active*
	248	*Continuous pump operation*
	118	*Summer operation*
	119	24-hour ECO active
	120	Setback reduced
	121	Setback frost protection
	122	Room temperature limit
	25	*Off*
8003	3	*Limit thermostat has cut out*
	4	*Manual control active*
	199	*Draw-off mode*
	222	Keep hot mode active
	221	Keep hot mode On
	77	Recooling via collector
	78	Recooling via DHW/HCs
	53	*Recooling active*
	79	Discharging protection active
	80	Charging time limitation active
	81	DHW charging locked
	82	*Charging lock active*
	83	Forced, max stor tank temp
	84	Forced, max charging temp

Pgm lines	State code	Meaning
8003	85	Forced, Legionella setpoint
	86	Forced, Nominal setpoint
	67	*Forced charging active*
	87	Charging electric, Legionella setpoint
	88	Charging electric, Nominal setpoint
	89	Charging electric, Reduced setpoint
	90	Charging electric, Frost Protection setpoint
	91	El imm heater released
	66	*Charging el im heater*
	92	Push, Legionella setpoint
	93	Push, Nominal setpoint
	94	*Push active*
	95	Charging, Legionella setpoint
	96	Charging, Nominal setpoint
	97	Charging, Reduced setpoint
	69	*Charging active*
	223	Frost protection instantaneous water heater
	24	*Frost protection active*
	17	*Overrun active*
	201	*Standby charging*
	70	Charged, max stor temp
	71	Charged, max charg temp
	98	Forced, legionella temp
	99	Charged, nominal temp

Pgm lines	State code	Meaning
8003	100	Forced, reduced temp
	75	*Charged*
	25	*Off*
	200	*Ready*
8005	245	Safety limit thermostat limits output
	1	*SLT has cut out*
	123	*SLT test active*
	2	*Fault*
	232	Flue gas temperature, shutdown
	233	Flue gas temperature, load limitation
	234	*Flue gas temperature to high*
	3	*Limit thermostat has cut out*
	4	*Manual control active*
	253	*Low flow rate*
	220	*Controller stop active*
	5	Chimney sweep function, high-fire
	6	Chimney sweep function, low-fire
	7	*Chimney sweep function active*
	8	Locked, manually
	172	Locked, solid fuel boiler
	9	Locked, automatically
	176	Locked, outside temperature
	198	Locked, Economy mode
	10	*Locked*
	20	Minimum limitation

Pgm lines	State code	Meaning
8005	21	Minimum limitation, low-fire
	22	*Minimum limitation active*
	11	Protective startup
	12	Protective startup, low-fire
	13	Return limitation
	14	Return temperature limitation, low-fire
	18	*In operation*
	59	*Charging buffer storage tank*
	170	*In operation for HC, DHW*
	171	*In low-fire operation for HC, DHW*
	173	*Released for HC, DHW*
	168	*In operation for DHW*
	169	*In low-fire operation for DHW*
	174	*Released for DHW*
	166	*In operation for heating circuit*
	167	*In low-fire operation for HC*
	175	*Released for HC*
	17	*Overrun active*
	19	*Released*
	23	Frost protection plant active
	24	*Frost protection active*
	25	*Off*

Pgm lines	State code	Meaning
8007	4	*Manual control active*
	2	*Fault*
	52	*Frost protection collector active*
	53	*Recooling active*
	54	*Max stor tank temp reached*
	55	*Evaporation protection active*
	56	*Overtemp protection active*
	57	*Max charg temp reached*
	151	*Charging DHW + buffer + swi pool*
	152	*Charging DHW + buffer*
	153	*Charging DHW + swi pool*
	154	*Charging buffer + swimming pool*
	58	*Charging DHW*
	59	*Charging buffer storage tank*
	60	*Charg swimm pool*
	61	Min charg temp not reached
	62	Temp diff insufficient
	63	*Radiation insufficient*
8008	4	*Manual control active*
	2	*Fault*
	56	*Overtemp protection active*
	17	*Overrun active*
	18	*In operation*
	163	*Assisted firing fan active*

Pgm lines	State code	Meaning
8008	23	Frost protection plant active
	141	Frost protection boiler active
	24	*Frost protection active*
	25	*Off*
8009	211	*Lockout*
	212	*Start prevention*
	18	*In operation*
	214	Safety time
	218	Prepurging
	215	*Startup*
	219	Postpurging
	213	Shutdown
	217	*Home run*
	216	*Standby*
8010	24	*Frost protection active*
	67	Forced charging active
	68	Partial charging active
	69	*Charging active*
	77	Recooling via collector
	142	Recooling via DHW/HCs
	53	*Recooling active*
	70	Charged, max stor temp
	71	Charged, max charg temp
	72	Charged, forced charg required temp
	73	Charged, required temp

Pgm lines	State code	Meaning
8010	74	Partially charged, temp setpoint
	143	Charged, min charg temp
	75	*Charged*
	76	*Cold*
	51	*No request for heat*
8011	4	*Manual control active*
	2	*Fault*
	106	*Heating mode restricted*
	110	*Forced heat release*
	155	Heating mode, generation
	137	*Heating mode*
	156	*Heated, max sw pool temp*
	158	Heated, solar setpoint
	157	Heated, source setpoint
	159	*Heated*
	160	Heating mode, solar Off
	161	Heating mode, heat source Off
	162	*Heating Off*
	76	*Cold*

Error code	Fault description	Explanation	Action(s)
10	Outside temperature sensor error		Check connection and/or sensor. Replace as required. Emergency operation Contact AIC technical support.
20	Boiler temperature 1, sensor error	Short circuit or Open circuit boiler flow sensor.	Check connection and sensor. Replace as required.
26	Common flow temperature, sensor error	Short circuit or Open circuit common flow temperature sensor.	Check connection and sensor. Replace as required.
28	Flue gas temperature sensor error	Short circuit or Open circuit flue gas sensor.	Check connection and sensor. Replace as required.
30	Flow temperature 1, sensor error	Short circuit or Open circuit flow sensor.	Check connection and sensor. Replace as required.
32	Flow temperature 2, sensor error	Short circuit or Open circuit boiler flow sensor.	Check connection and sensor. Replace as required.
38	Flow temperature, primary controller, sensor error		Check connection and sensor. Replace as required.
40	Return temperature 1, sensor error	Short circuit or Open circuit boiler return sensor.	Check connection and sensor. Replace as required.
46	Cascade return temperature, sensor error		Check connection and sensor. Replace as required.
47	Common return temperature, sensor error		Check connection and sensor. Replace as required.
50	DHW temperature 1 sensor error		Check connection and sensor. Replace as required.
52	DHW temperature 2, sensor error		Check connection and sensor. Replace as required.
54	Flow temperature DHW, sensor error	Short circuit or Open circuit DHW flow sensor.	Check connection and sensor. Replace as required.
57	DHW circulation, sensor error		Check connection and sensor. Replace as required.
60	Room temperature 1, sensor error		Check connection and sensor. Replace as required.
65	Room temperature 2, sensor error		Check connection and sensor. Replace as required.
68	Room temperature 3, sensor error		Check connection and sensor. Replace as required.
70	Storage tank temperature 1 (top), sensor error		Check connection and sensor. Replace as required.

Error code	Fault description	Explanation	Action(s)
71	Storage tank temperature 2 (bottom), sensor error		Check connection and sensor. Replace as required.
72	Storage tank temperature 3 (center), sensor error		Check connection and sensor. Replace as required.
78	Water pressure, sensor error		Check connection and sensor. Replace as required.
81	LPB short circuit or no bus power supply		Check LPB connections and bus power supply.
82	LPB address collision		Check addresses of connected control modules
83	BSB wire cross-sectional/no communication		Check connection of the room units
84	BSB wire address collision	2 room devices have the same assignment (prog.no. 42)	Correct device address.
85	BSB RF communication error		Check bus connection and components.
91	Data overrun in EEPROM	Internal fault in controller, process sensor	Contact AIC technical support.
98	Extension module 1, error		Check extension module connections.
99	Extension module 2, error		Check extension module connections.
100	2 clock time masters		Check time master
102	Clock time master without backup		Check clock
103	Communication error		Check connection and components
105	Maintenance message		See maintenance code (press information button once) for detailed information
109	Supervision boiler temperature		Contact AIC technical support.
110	STB (SLT) lockout	No heat removal, STB interruption, possible short-circuit in the gas valve, internal fuse faulty;	Allow device to cool down and carry out reset; if the fault occurs several times inform AIC technical support
		Internal pump malfunction	Check the internal pump
111	Temperature limiter safety shutdown		Contact AIC technical support.
117	Water pressure too high		Release the water to a suitable pressure
118	Water pressure too low		Top up the system with water to reach a suitable pressure

Error Codes

Error code	Fault description	Explanation	Action(s)
121	Flow temperature heating circuit 1 not reached	Heat losses in circuit	Check the circuit for fault insulation and heat losses.
122	Flow temperature heating circuit 2 not reached	Heat losses in circuit	Check the circuit for fault insulation and heat losses.
125	Maximum boiler temperature exceeded		Contact AIC technical support.
126	DHW charging temperature not reached		Check operation and heat up times for DHW
127	DHW legionella temperature not reached		Check operation of appliance
128	Loss of flame during operation	Ionization current lost after successful ignition	Check electric supply, polarity and ionization electrode, as well as ignition components/parameters.
129	Wrong air supply		Check air supply
130	Flue gas temperature limit exceeded	Heat engine is overheating	Check causes of high temps Check connection and sensor. Replace as required Check connection and chimney.
132	Gas pressure switch safety shut down	Lack of gas	Check gas supply and pressure Check connection and component
133	Safety time for establishment of flame exceeded	Lack of gas, Polarity of mains connection, safety period,	Reset, if the fault re-occurs more than 3 times, contact AIC technical support. Check ignition electrode and ionization current
134	Common fault HP		Check Heat Pump for error and follow Heat Pump user manual
146	Configuration error sensor/controlling elements		Check sensor configuration or replace component
151	LMS14... error, internally		Check parameters (see adjustment table installer and/or call-up values) Reset controller and/or replace as required, Check electrode wiring Contact AIC technical support.
152	Parameterization error	Incorrect / Conflicting parameters input.	Verify parameters or reset to default parameters
153	Unit manually locked	Reset button stuck in	Check reset button
160	Fan speed threshold not reached	Fan/relay possibly defective, speed threshold set wrongly.	Check parameters, connections and component. Replace as required

Error code	Fault description	Explanation	Action(s)
162	Air pressure switch error	Air pressure switch/Flue pressure switch does not close	Check flue path for obstructions. Unblock as required Check connection/wiring and pressure switch. Replace as required. **Floor appliances (from 120 kW):** Check air intake for obstructions. Unblock as required.
164	Flow/pressure switch, heating circuit error	No flow detected	Remove the air from the circuit; Update the parameter set. Check connection and switches in HC. Replace as required
166	Air pressure switch error	Air pressure switch does not open	Check connection and adjustments on air pressure switch. Replace as required.
170	Error water pressure sensor, primary side		Check connection and sensor. Replace as required.
171	Alarm contact 1 active		Correct the active fault
172	Alarm contact 2 active		
173	Alarm contact 3 active		
174	Alarm contact 4 active		
176	Water pressure 2 too high		Release the water to a suitable pressure.
177	Water pressure 2 too low		Top up the system with water to reach a suitable pressure.
178	Temperature limiter heating circuit 1		Allow the circuit to cool down and carry out reset; if the fault occurs several times inform AIC technical suport.
179	Temperature limiter heating circuit 2		Allow the circuit to cool down and carry out reset; if the fault occurs several times inform AIC technical suport.
183	Unit in parametrization mode		Wait until parametrization process is complete

Error code	Fault description	Explanation	Action(s)
193	Start prevention signal input	Short circuit or Open circuit According to appliance model, can apply to the following : › condensate level switch › burner plate temp. limit switch › Additional external max. temp limit switch › Additional external max. pressure limit switch › Gas overpressure switch (N 1080-1260 FSW only)	**Nesta 120 to 300 kW & Texas 99-230 kW:** 1. Check connection/wiring and condensate level switch. Replace as required 2. Check connection/wiring and burner plate temp. limit switch. Replace as required **Nesta Plus 280 to 840 kW (N 280 to 840 FS)** 1. Check connection/wiring and condensate level switch. Replace as required. 2. Check connection/wiring and burner plate temp. limit switch. Replace as required **Nesta Plus with water-cooled burner plate , from 280 to 1260 kW (N 280 to 1260 FSW)** 1. Check connection/wiring and condensate level switch. Replace as required. 2. Check connection/wiring and switch of Gas Overpressure Switch (N 1080-1260 FSW only). Replace as required. If the problem is not solved, contact AIC Technical support. **Floor appliances >300 kW** *This point is not applicable in Italy.* Check additional external max temp limit switch and additional external max pressure limit switch and connection. Replace as required
195	Maximum duration of the refill per charging exceeded		Check automatic refill system.
		The use of an automatic refill system is not recommended	
196	Maximum duration of the refill per week exceeded		Check automatic refill system.
		The use of an automatic refill system is not recommended	
209	Fault heating circuit		Check the heating circuit configuration. Reset to default parameters

Error Codes

Error code	Fault description	Explanation	Action(s)
216	Fault boiler		Check the heating circuit configuration. Reset to default parameters
217	Sensor error		Check connection and sensor. Replace as required.
218	Pressure supervision		Check system pressure.
243	Swimming pool sensor, error		Check connection and sensor. Replace as required.
260	Flow temperature 3, sensor error		Check connection and sensor. Replace as required.
270	Temperature difference, heat exchanger too large		Check the heating system external hydraulic components.
317	Mains frequency outside permissible range		Check correct electric supply in boiler terminals.
320	DHW charging temperature, sensor error		Check connection and sensor. Replace as required.
321	DHW outlet temperature, sensor error		Check connection and sensor. Replace as required.
322	Water pressure 3 too high		Release the water to a suitable pressure.
323	Water pressure 3 too low		Top up the system with water to reach a suitable pressure.
324	Input BX, same sensors		Check configuration in parameters list
325	Input BX/extension module, same sensors		Check configuration in parameters list.
326	Input BX/mixing group, same sensors		Check configuration in parameters list.
327	Extension module, same function		Check configuration in parameters list.
328	Mixing group, same function		Check configuration in parameters list.
329	Extension module/mixing group same function		Check configuration in parameters list.
330	Sensor input BX1 without function		Connect temperature sensor in BX terminal
331	Sensor input BX2 without function		Connect temperature sensor in BX terminal
332	Sensor input BX3 without function		Connect temperature sensor in BX terminal
333	Sensor input BX4 without function		Connect temperature sensor in BX terminal
334	Sensor input BX5 without function		Connect temperature sensor in BX terminal
335	Sensor input BX21 without function		Connect temperature sensor in BX terminal
336	Sensor input BX22 without function		Connect temperature sensor in BX terminal
341	Sensor B6 missing	Solar sensor missing	Check parameters, connection and component.
349	Buffer storage tank return valve Y15 missing		Check connection of return valve Y15. Replace as required.
350	Buffer storage tank address error		Correct device address.

Error code	Fault description	Explanation	Action(s)
351	Primary controller/ system pump, address error		Correct device address.
352	Pressureless header, address error		Correct device address.
353	Sensor B10 missing	Common flow sensor missing	Check parameters, connection and component
369	External		Contact AIC technical support
371	Flow temperature heating circuit 3		Check the circuit for fault insulation and heat losses.
372	Temperature limiter heating circuit 3		Allow the circuit to cool down and carry out reset; if the fault occurs several times inform AIC technical suport.
373	Extension module 3		Check extension module connections.
378	Internal repetition		Contact AIC technical support
382	Repetition speed		Contact AIC technical support
384	Extraneous light		Shut off gas supply and contact AIC technical support
385	Mains undervoltage		Check electric supply in boiler terminals
386	Fan speed tolerance		Check air supply
388	DHW sensor no function		Check connection and sensor. Replace as required.
391	Room controller 1		Check addresses and parameters
392	Room controller 2		
393	Room controller 3		
426	Feedback flue gas damper		Check the connection and component
427	Configuration flue gas damper		Check configuration parameters
429	Dynamic water pressure too high	Expansion tank is defective	Verify pump Replace expansion tank
430	Dynamic water pressure too low		Verify pump
431	Sensor primary heat exchanger		Check connection and sensor. Replace as required.
432	Function ground not connected		Check ground connection and install as required
433	Temperature primary heat exchanger too high		Check the heating system external hydraulic components.
441	BX31 no function		Check connection or verify parametrization of connections.
442	BX32 no function		Check connection or verify parametrization of connections.

Error code	Fault description	Explanation	Action(s)
443	BX33 no function		Check connection or verify parametrization of connections.
444	BX34 no function		Check connection or verify parametrization of connections.
445	BX35 no function		Check connection or verify parametrization of connections.
446	BX36 no function		Check connection or verify parametrization of connections.
447	BX6 no function		Check connection or verify parametrization of connections.
452	HX1 no function		Check connection or verify parametrization of connections.
453	HX3 no function		Check connection or verify parametrization of connections.
454	HX31 no function		Check connection or verify parametrization of connections.
455	HX32 no function		Check connection or verify parametrization of connections.
456	HX33 no function		Check connection or verify parametrization of connections.
457	BX7 no function		Check connection or verify parametrization of connections.