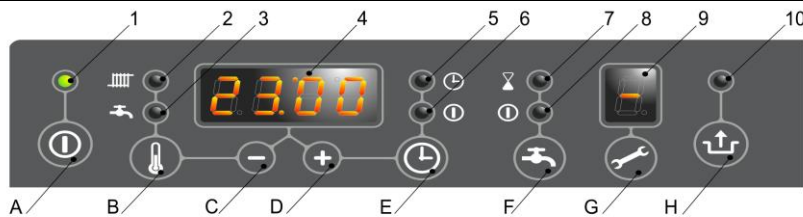


INSTALLER MENU

Press the and keys simultaneously until [0] is displayed on the service and main displays.
Use the keys until [15] is visible on the display, then press the key to scroll to the desired parameter.
Use the keys to adjust the parameter to the required value (visible) on the main display.
Once the required parameters have been adjusted, press the key to save the values [P] will be displayed to confirm.
NOTE Pressing the key exits the installer menu without storing the adjusted parameter.









MENU	PARAMETER MODE	RANGE	REC	DEFAULT	NOTES
1	Boiler type	0 to 3	0	0	0 = Combi boiler 1 = Heating only + external DHW cylinder 2 = DHW only (i.e. instantaneous hot water only no heating circuit) 3 = Heating only boiler
2	Central heating pump setting	0 to 3	0	0	0 = Pump overrun active 1 = Pump continuous (DHW function off) 1 = Pump continuously active 2 = Pump continuously active with MIT switch 3 = Pump on external via external switch
3	Maximum output for central heating	25 to 99	70	70	(As %) max setting 85 all models except 36/40 = 99% maximum
3.	Maximum power to modulating pump	40 to 99	80	80	(As %) max setting 80 all models except 36/40 = 100% (C. min setting)
4	DHW maximum output	25 to 99	99	99	(As %) max setting 99 all models except 36/40 = 75%
5	Min CH flow temp setting for outside weather comp	10 to 90	25	25	Displayed as %
5.	Max CH flow temperature setting for end user	10 to 90	75	80	Displayed as °C
6	Min external temp setting for outside weather comp	-30 to 10	-7	-7	Displayed as °C
7	Max external temp setting for outside weather comp	15 to 30	25	25	Displayed as °C
8	CH pump overrun time	0 to 15	1	1	Displayed in minutes
9	CH pump purge time after DHW demand	0 to 15	1	1	N/A for combi boiler variants
A	Booster	0 to 8			N/A for UK boilers
b	--	0 to 1	0	0	N/A for UK boilers
C	CH pump modulation	0 to 2	1	1	0 = modulation off / 1 = modulation on
c	Minimum CH output	20 to 50	30	30	Displayed as % (Set to 20 for 36/40 boiler)
c.	Minimum power to modulating pump	0 to 80	40	40	Displayed as % (See 3. for max setting) note 36/40 model set to 50%
d	Minimum DHW output	20 to 50	25	25	Displayed as % (36/40 model set to 20%)
E	Minimum flow temp via OpenTherm control	10 to 60	40	40	Displayed as °C
E.	OpenTherm activation response	0 to 2	1	1	0 = Ignore OT demand providing the setpoint of the flow temp is below the value of parameter E 1 = Accept OT demand providing the setpoint of the flow temp is below the value of parameter E. (Setpoint for the flow as set in parameter E) 2 = Disable OT (heating flow will be as per customer display set point)
F	Fan speed during CH Ignition phase	50 to 99	variable	variable	24/18 = 70% 28/24 = 60% 36/30 = 50% 36/40 = 40%
F.	Fan speed during DHW Ignition phase	50 to 99	variable	variable	24/18 = 70% 28/24 = 60% 36/30 = 50% 36/40 = 40%
h	Maximum fan speed RPM (Factory set do not adjust)	40 to 50	variable	variable	24/18 = 48% 28/24 = 48% 36/30 = 50% 36/40 = 65%
L	Legionella prevention (applicable with external cylinder)	0 to 2	0	0	0 = Legionella prevention disabled 1 = Legionella prevention weekly 2 = Legionella prevention daily
n	Maximum flow set point (when used a system boiler)	60 to 90	85	85	Displayed as °C flow temp to heat a hot water cylinder
n.	Eco/Comfort setting range	40 to 65	0	0	Displayed as °C (Comfort temp is related to DHW set point)
O.	Delay time after CH demand	0 to 15	0	0	Displayed in minutes
o	Delay time for CH after DHW demand	0 to 15	0	0*	Displayed in minutes (*36/40 set to 5 minutes)
o.	Eco days	0 to 10	3	3	Displayed in days 0 = can be set via an OpenTherm controller
P	Anti-Cycle time after CH demand	0 to 15	5	5	Displayed in minutes, delay activated when above CH setpoint temp
P.	DHW output value	24 to 36	variable	variable	0 = flow switch 24 = Combi compact HRE 24/18 30 = Combi compact HRE 28/24 36 = Combi compact HRE 36/30 or 36/40
q	Summer / Winter mode	0 to 3	0	0	N/A for UK market
r	Heating curve coefficient	0 to 9	0	0	N/A for UK market



- | | |
|--|--|
| <p>Read-out</p> <ul style="list-style-type: none"> 1 On / off 2 CH operation or setting maximum CH temperature 3 DHW operation or setting DHW temperature 4 Desired temperature of CH or DHW in °C / Ch water pressure (bar) / Fault code/ Time 5 Clock "on" CH enabled 6 Clock "off" CH disabled 7 DHW comfort function eco 8 DHW comfort function on (continuous) 9 Operating code 10 Flashes to indicate fault | <p>Operation</p> <ul style="list-style-type: none"> A On / Off button B DHW / CH button, for setting desired temperature C - button D + button E Clock function setting F DHW comfort function off / eco / on G Service button H Reset button |
|--|--|



FAULT CODES		
CODE	CODE DESCRIPTION	Possible Cause & Solution (Refer to the installation manual)
0	Sensor fault after self check	• Replace sensor S1 & S2
0.0	Low system water pressure	• Re-pressurise the central heating circuit via the filling loop (1 to 1.5bar when cold) • Blocked low water pressure sensor / Replace or clean out inlet port
1	Temperature too high	• Air within the heating circuit or poor circulation, Vent boiler and system • Pump faulty, stuck or not operating, check wiring and or pump replace if required • Insufficient flow through the heat exchanger, turn on radiators or isolation valves, check system by-pass
2	Sensor S1 & S2 in the wrong location	• Swap positions of S1 with S2 sensor and connection cables then test • Check wiring to each sensor, replace if necessary.
4	No flame signal or insufficient ionisation current	• Check the gas isolation valve is turned on at the boiler and ECV at the gas meter • Check the gas inlet working pressure is not below 17 mbar (20 mbar recommended) at P1 on gas valve • Check ignition module, ignition lead or electrode including spark gap • Check adjustment of gas valve (See the manual for CO ₂ values) • Check the burner for debris or damage, replace if necessary • Poor earth to Ionisation probe or boiler • Check or replace the gas valve • Check the ionisation / Ignition probe is clean and correctly located, check the wiring • Replace the PCB or check the wiring
5	Poor flame signal	• Condensate pipework blocked or frozen • Check CO ₂ adjustment via gas valve • Poor earth to Ionisation probe or boiler • Excessive back draft into the flue terminal, Check location or fit a plume management kit.
6	(False) flame detection fault	• Check ignition module, ignition lead or electrode including spark gap • Replace the PCB or check the wiring
8	Incorrect fan speed (Fan too slow)	• Debris in fan or fan not balanced correctly • Check wiring loom to fan & replace if damaged • Replace the fan assembly (ensure the non return valve is fitted) check the CO ₂ after replacing the fan
10	S1 Open circuit	• Boiler needs venting (Vent from manual air vent top left of boiler)
11	S1 Short circuit	• DHW flowswitch (stuck closed) or flow sensor fault, check DHW flow rate possible lime scale build-up
12	S1 Temperature change -10°C within 1 second	• Check wiring connections, or trapped / broken wires
13	S1 Temperature change +10°C within 1 second	• Replace sensor S1
14	S1 no Temperature change with 2 mins operating	• Output reduces to minimum, after a further 2 mins, boiler will lock-out if no further change
20	S2 Open circuit	• Resistance is out of range (to high) or infinity
21	S2 Short circuit	• Resistance measured is too low or zero
22	S2 Temperature change -10°C within 1 second	• Check wiring connections, or trapped / broken wires
23	S2 Temperature change +10°C within 1 second	• Replace sensor S2
24	S2 no Temperature change with 2 mins operating	• S2 temp has not changed in 24hrs (providing there was a demand within this period) boiler lock-out
25	Flue sensor closed >2mins	• N/A for UK boilers
26	Flue sensor not closed >24 hrs	• N/A for UK boilers
27	Outside sensor fault (short circuit)	• Value < 1 KΩ is measured check wiring to sensor, check sensor, replace either if required.
29	Gas valve relay fault	• Replace ignition module
30	Gas valve relay fault	• Replace the PCB or check the wiring to the gas valve

Test programs

Program description	Button combinations	Display reading
Burner on at minimum power	 and 	"L"
Burner on with maximum CH power setting (See § 10.3 , parameter 3)	 and  (1x)	"h"
Burner on with maximum DHW power (See § 10.3 , parameter 4)	 and  (2x)	"H"
Switch off test program	 and 	Actual situation

Addition readings :

During test mode the following data can be read :

- By pressing the  button continuously in the display the CH water pressure is shown.
- By pressing the  button continuously in the display the ionisation current is shown.

Co₂ settings Natural gas
Min adjust 8.4 > 9.1%
Max read only 8.6 > 9.6%

Co₂ settings LPG
Min adjust 9.3 > 10.2%
Max read only 9.8 > 10.8%