INTERGAS° BOILERS

HRE, Eco RF & Rapid boilers Incorporating iC3 PCB

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 1 key to save the values [P] will be displayed to confirm.					
					without storing the adjusted parameter.	
MENU	PARAMETER MODE	RANGE	REC	DEFAULT		
1	Boiler type	0 to 3	0	0	0 = Combi boiler	
		1			1 = Heating only + priority DHW via Pin 5 (see parameter A)	
		1			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			1 = Pump continuously active (DHW function off)	
		1			2 = Pump continuously active with MIT switch	
	Marian and and for a satural baseline	05.100	70	70	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 SB 40 = 70% 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 5	DHW maximum output	25 to 99	99 25	99	(As %) max setting 99 all models except 36/40 = 75%	
5.	Min CH flow temp setting for outside weather comp Max CH flow temperature setting for end user	10 to 90 10 to 90	75	25 80	Displayed as °C Displayed as °C (Max 75°C for 40kW boilers)	
6	Min external temp setting for outside weather comp	-30 to 10	-7	-7	Displayed as °C (Max 73 C for 40kW bollers)	
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 (Set value to 3 for 40kW boilers)	
9	CH pump purge time after DHW demand	0 to 15	1	1	N/A for combi boiler variants	
A	X2 Pin 5 output configuration	0 to 13	'	0	Set to value 6 for X - Plan PDHW (6 = 230v ~ during DHW demand)	
b		0 to 0	0	0	N/A for UK boilers	
C	CH pump modulation	0 to 1	1	1	0 = modulation off / 1 = modulation on	
С	Minimum CH output	20 to 50	30	30	Displayed as % (Set to 30 for 36/40 boiler) (RAPID 25 & 32 = 25)	
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 % (40Kw boilers set to 20%)	
E	Minimum flow temp via OpenTherm control	10 to 60	40	40	Displayed as °C	
Ē.	OpenTherm activation response	0 to 2	1	1	0 = Ignore OT demand providing the setpoint of the flow temp is below the	
	Орентнени асачалог гезропзе	0102	'	'	value of parameter E	
					1 = Accept OT demand providing the setpoint of the flow temp is below the	
		1			value of parameter E. (Setpoint for the flow as set in parameter E)	
		1			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% RAPID 25=60 32=50	
F.	Fan speed during DHW Ignition phase	50 to 99	variable	variable	24/18=70% 28/24=60% 36/30=50% 36/40=40% RAPID 25=60 32=50	
Н	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=60 % RAPID 25=50 32=50	
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 as 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)	
0.	Delay time after CH demand	0 to 15	0	0	Displayed in minutes	
0	Delay time for CH after DHW demand	0 to 15	0	0*	Displayed in minutes (*36/40 set to 5 minutes)	
0.	Eco days	0 to 10	3	3	Displayed in days 0 = can be set via an OpenTherm controller	
Р	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 RAPID 25=30	
					36 = Combi compact HRE 36/30 or 36/40 RAPID 32=36	
q	Summer / Winter mode	0 to 3	0	0	N/A for UK market	
r	Heating curve coefficiency	0 to 9	0	0	N/A for UK market	

Read-out On / off

- On / off
 CH operation or setting maximum CH temperature
 DHW operation or setting DHW temperature
 Desired temperature of CH or DHW in °C / Ch water pressure (bar) / Fault code/ Time
 Clock 'on °CH enabled
 Clock "off" CH disabled

- DHW comfort function eco
 DHW comfort function on (continuous)
- Operating code Flashes to indicate fault

Operation On / Off button

- On / OH button
 DHW / CH button, for setting desired temperature
 button
 button
 Clock function setting
 DHW comfort function off / eco / on
 Service button
 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 cabels 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
, and the second		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 CO2 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 CO2 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 nor return valve is fitted) check the CO2 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. Deplace in the production and the production of the productio
29	Gas valve relay fault	Replace ignition module
30	Gas valve relay fault	Replace the PCB or check the wiring to the gas valve Charles a variety to the conditions of the gas valve.
50	Low voltage between Live and Earth (X2 pin 2 to earth)	Crieck power supply to the appliance

Test programs

The boiler controller has a facility for placing the appliance in test mode. Activation of a test program will result in the appliance starting operation at a fixed fan speed, without the control functions being actuated. The safety functions do remain active. The test program is cancelled by pressing the + and - simultaneously or will end automatically after 10 minutes.

Program description	Button combinations	Display reading
Burner operating at minimum power	✓ and —	L
Burner operating at maximum CH power setting (See parameter 3)	✓ and + (1x)	h
Burner operating at maximum DHW power setting (See parameter 4)	✓ and + (2x)	H
Switch off / cancel test program	+ and -	Boiler status

Additional readings

During test mode the following information can be viewed:

- Press & hold the button = CH pressure displayed
 Press & hold the + button = ionisation current displayed

CO ₂ settings: NG (G20)	CO ₂ settings: LPG (G31)
Min adjust 8.4 > 9.1%	Min adjust 9.3 > 10.2%
Max read only 8.6 > 9.6%	Max read only 9.8 > 10.8%

Operational codes
3 = Fan operating
4 = Ignition generated
5 = Central heating demand
6 = Domestic hot water demand
7 = Pre-Heat operating

Pre-Heat options		
¥ @		
① 💿	①= On (24/7 temp controlled)	
-	○ = Off (No LED illumination)	

