



LCD Heater Control Panel

- The control panel offers two control modes plus a and it can monitor a variety of the heater functions.
- A custom LCD panel provides visualization of the status of the heater and five push-buttons allow control parameters to be displayed and the three levels of settings to be adjusted.
- The unit is fully automatic – initial setup can be as simple as powering-up and pressing the on-off key, marked as Φ .



Basic Operation

- There are two principal control modes – **Temperature Control Mode** and **Heat (Fuel) Pulse Control Mode**.
- In the **Temperature Control Mode**, the device automatically generates the maximum heat until the set temperature is exceeded, after which the heat output will be reduced to maintain the temperature.
- In **Heat Control Mode** the user sets the frequency of fuel pump pulses – the higher the number the more fuel is burned, the more heat is generated. The heater will adjust the fan speed automatically to maintain an acceptable outlet temperature
- To select between these modes, press the “settings” and “up” keys together.
- If you see P- and some numbers than you have selected Heat Control mode. Press the same two keys again to return to Temperature mode.
- In Heat Control mode, you will see a P and a number, which is the pump pulse frequency. (Hz – Hertz, pulses per second). Each pulse delivers a fixed amount of fuel to the burner – more pulses give more fuel of course.
- Temperature setting OR Fuel Pulse frequency can be changed using the arrow keys (top and bottom right-hand side) depending on which mode is currently in use. Changes are actioned immediately.



Display Function

- The OK button cycles the display through:
 - Time
 - Ambient Temperature
 - Target Temperature
 - Supply Voltage
 - Fault History



Remote Keyfob Pairing (optional)

- A compatible remote keyfob may be matched to the controller using this simple procedure:
- Press ^ and then OK. Hold down for 3 seconds until the display shows HFA
- Press any button of the remote control and observe the blue communication symbol on the display
- On successful pairing the unit will restart
- The remote unit keys will activate ON and OFF



Settings

- The “settings” button gives access further levels of settings.
- The OK key scrolls through:
 1. Time of Day (clockface)
 2. Timer Operation (ON/OFF)
 3. Advanced Settings



1) Time of Day

- To set time of day, pause at the clockface and press the OK key (lower left).
- Note the first time-digit is flashing.
- Press arrow keys to select the correct number, then OK to move to the next digit.
- Repeat this until the display shows the correct 24h time. 12h display is not supported.
- After the final setting, the selection will move on to the Timer Settings (alarm clock symbol).



2) Timer Operation

- This device supports two timer-settings, each of which has an on and off time.
- Enable the first timer by using the arrow keys to change "1 oF" to "1 on", press ok
- It will appear "08:00". Set the ON time using arrow keys and OK digit-by-digit
- Press "OK" once more to confirm the ON settings
- In the sequence, set the OFF time.
- If using two timers, repeat the above by changing "2 oF" to "2 on".
- Press the "setting" button twice to exit the timer mode.

• Examples below:

• Example 1) no timer:

1-OF -> 2-OF -> (next setting)

• Example 2) Using only timer 1:

1-ON -> HH-MM (on-1) -> HH-MM (off-1) -> 2-OF -> (next setting)

• Example 3) Using timer 1 and 2:

1-ON -> HH-MM (on-1) -> HH-MM (off-1) -> 2-ON -> HH-MM (on-2) -> HH-MM (off-2) -> (next setting)











- On exiting this setting, the alarm clock will be lit showing that a timer setting is active. Settings will reset after each operation. You can't, therefore, set a repeating on-time each day.



3) Advanced Settings

- The advanced settings control the operating parameters of the heater (as opposed to the user requirements)
- Access to the advanced settings are protected by a 4-digit PIN code
- Please do not attempt to change the advanced settings without knowledge

Error Codes

Error Code	Cause	LCD Warning Symbol	Solution
E-01	Power Supply Undervoltage		Increase power supply voltage (i.e. charge your battery)
E-02	Power Supply Overvoltage		Reduce power supply voltage (i.e. discharge your battery)
E-03	Ignition Plug Failure		Check if ignition plug is open or short-circuited
E-04	Fuel Pump Failure		Check the fuel pump for any leaks or damages
E-05	Over-heat (...)		Check if the temperature sensor cables are loose or faulty
E-06	Over-heat (...)		Check fan magnet polarity, position of Holzer sensor or loose terminal
E-07	Broken Line Fault		Check the LCD connectors harness, verify if the blue wiring is loose or short circuited
E-08	Flame Failure		Check if the fuel circuit is blocked, resulting in poor fuel supply
E-09	Sensor Failure		Check if sensor plug is loose, broken or short circuited
E-10	Ignition Failure		Check if the fuel circuit is blocked and fuel quality