



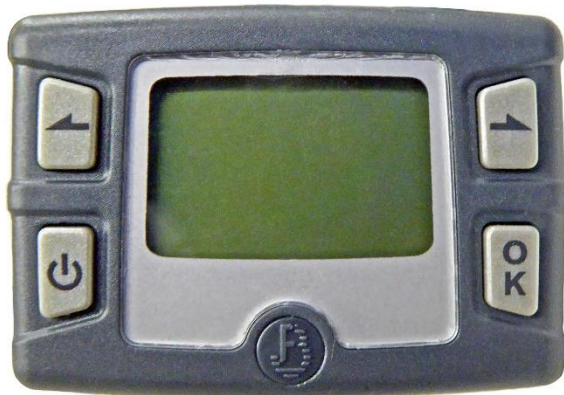
MV LCD 7-Day Timer

ALPINE AUTO

OPERATION MANUAL

Ed 1.00

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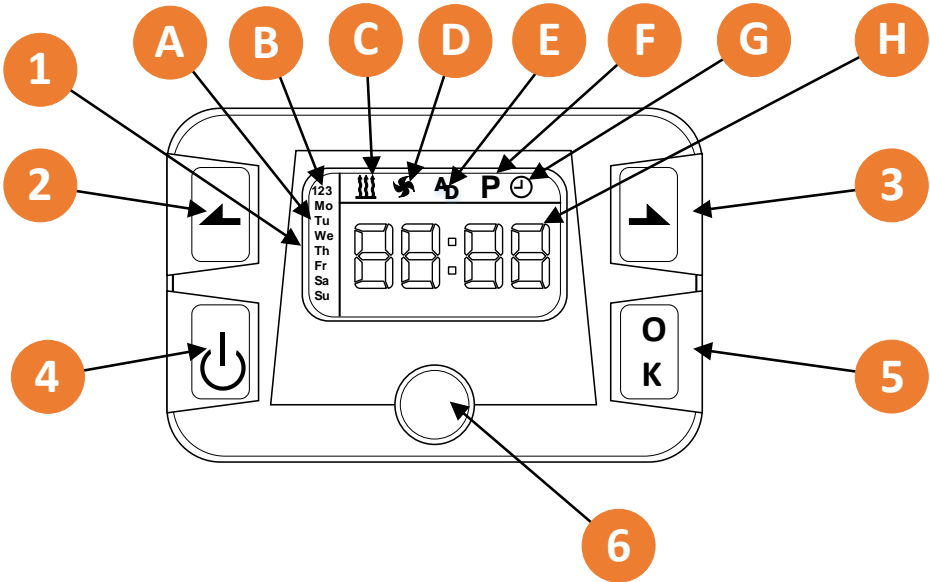
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Key



1. LCD Screen

2. Left Arrow Button

3. Right Arrow Button

4. Power/Back Button

5. OK Button

6. Fixing Screw Hole

A. Days of the week

B. Heating times (1-3)

C. Heating Symbol

D. Fan Symbol

E. Info Symbol

F. Program/Timer Symbol

G. Clock Symbol

H. Digital Clock Face

Installing the Control

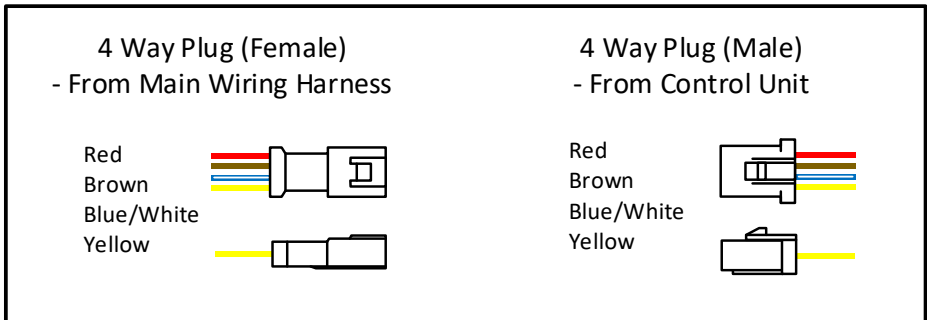
Use the fixing screw and mounting pad provided to fix the control to a suitable, flat, and clean surface. It is best installed so that it can be seen and operated easily to identify working conditions and for ease of access.

Once mounted, place the small plastic screw cover over the fixing screw.

The image below shows the control unit plug and loom connection that it corresponds to.

To fit the control into the loom, simply push the plug in place.

To remove it, push down the tab on the male plug, and separate the two.



Changing Language

The language should be set to English. However, if it isn't or the control has been reset to default settings it will revert to Chinese. Please follow these steps to convert the language to English.

1. Turn on the control with the power button. Wait for the symbols to stop flashing, then press the power button again.

2. Navigate to the clock face symbol at the top of the control by using the arrow keys. When it is flashing press both arrow keys simultaneously.

3. P1 now appears.

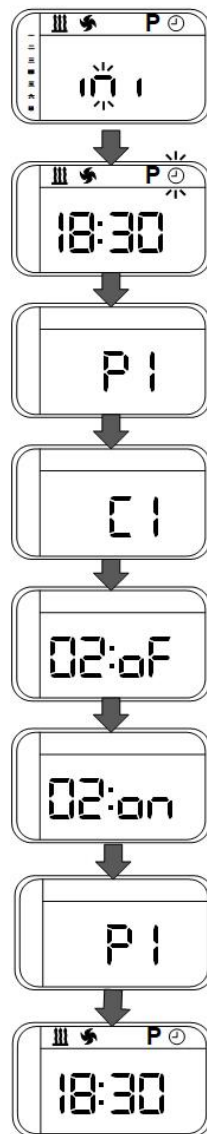
4. Press ok and C1 will appear.

5. Keep pressing ok slowly until '02:oF' appears.

6. Press any of the arrow keys until the screen reads '02:on'

7. Keep pressing ok until back to the P1 menu screen

8. Press the power button to return. The language will now be set to English.



Changing the Date and Time

1. To change the date and time, navigate to the clock symbol and press ok.
2. Select the day of the week first using the arrow keys and press ok to confirm.
3. Select the hour using the arrow keys and press ok to confirm.
4. Finally, select the minutes in the same way pressing ok to confirm.
5. Once completed, the control will return to the home screen (displaying the correct time)

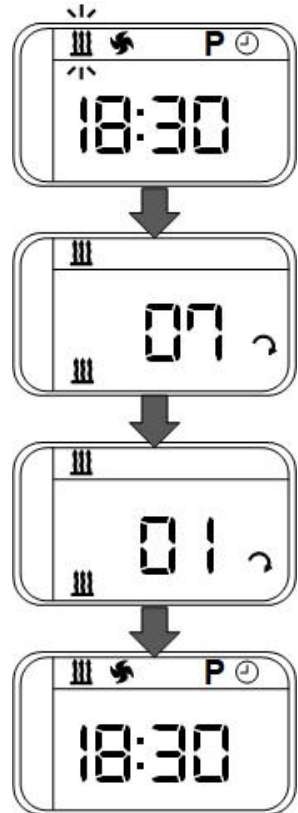
NOTE: If the LCD digital timer is disconnected from the loom, the date and time will need to be re-entered.



Manual On/Off

In manual on/off mode, once turned on the heater will continue to run until it is manually turned off again. Whilst turned on, the arrow keys are used to select the power output (fan speed) of the heater. The higher the fan speed, the greater the volume of hot air will be pushed into the heating space.

1. To switch the power on manually, navigate to the heating icon, and press ok
2. The heater will start automatically.
3. Use the arrow keys to adjust the output of the heater from high to low (07 to 01 respectively)
4. To switch the heater off, simply press the heater button to return to the home screen.



Fan Mode

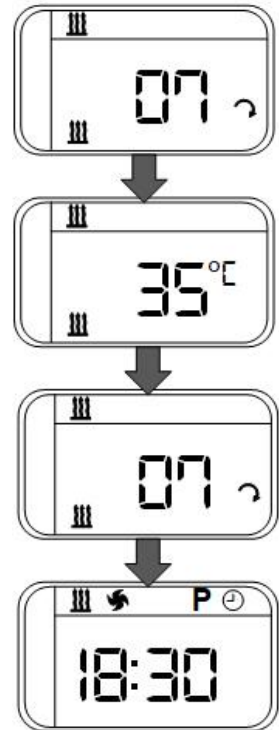
The fan only mode works in the same way as the manual on/off mode. Simply navigate across to the fan symbol and confirm with OK. The fan will then automatically switch on and its speed can be adjusted from high to low (07 to 01 respectively) using the arrow keys. To switch it off, press the power button.

Switching to Thermostatic Mode

In thermostatic mode, the heater will run until it has reached the set temperature and (version dependent) will either switch off completely or continue to run the fan until the temperature has dropped significantly enough that the heater will then relight and start again. The unit will continue to cycle until the controller is switched off completely. Temperature will vary depending on where the temperature probe is installed, and how much ambient air flow it has.

To switch to thermostatic mode, turn the heater on manually, as stated in the previous step.

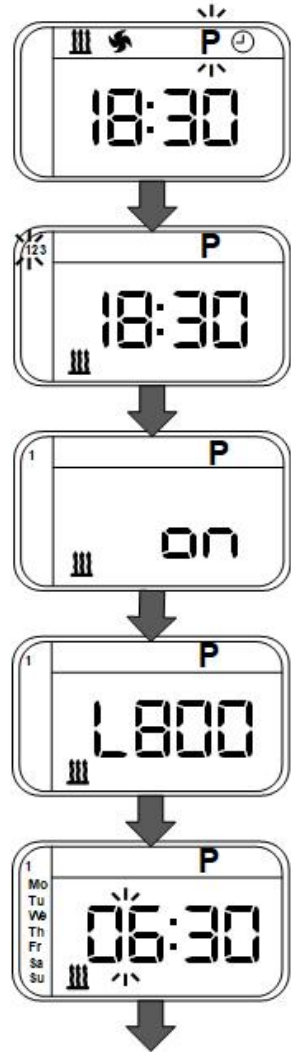
1. Once the heater is on, press and hold the ok button until the display changes to temperature.
2. The temperature setting can be adjusted from 5°C to 35°C using the arrow keys.
3. To adjust back to the manual on/off (variable output mode), simply press and hold the ok button again until the display changes to variable output.
4. To switch the heater off, press the power button to return to the home screen.



Pre-setting Heating Times

The digital control can be used as a 7-Day timer and is able to be preset to switch on up to three times a day.

1. Navigate to the 'P' symbol and press OK.
2. Using the arrow keys select the number 1 (flashing) at the top of the screen and press OK – Number 1 is the first heating time.
3. Using the arrow keys, select 'ON', as this will allow the heater to switch on after the presetting is finished. Press OK to confirm.
4. Select the length of time you want the heater to run for by using the arrow keys. – L800 represents 800 minutes. Run time can be selected from 50-990. Press OK to confirm.
5. Select the hour you wish the heater to start at by using the arrow keys and then pressing OK to confirm.



6. Select the minutes in the same way and press OK to confirm.

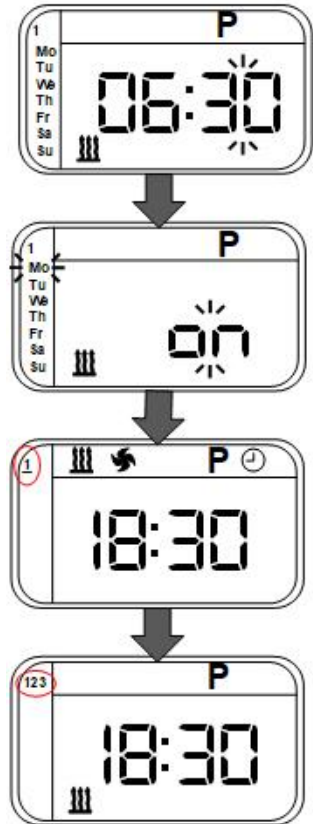
7. The next step is choosing which day of the week you want the heater to run. Starting with Monday, use the arrow keys to change from 'OFF' to 'ON' and press OK to confirm. Continue this all the way through to Sunday.

8. The preset time should now be set. This will be indicated by the small number 1 at the top of the screen.

9. To set the second and third heating times, simply repeat all the steps but select 2 or 3 instead of 1 (see step 2) to set those heating times. Numbers 2 and 3 will appear if the times have been successfully set.

The next heating time (1, 2, or 3) is indicated by an underline under that number. I.e. an underlined number 2, means that the second preset heating time is next.

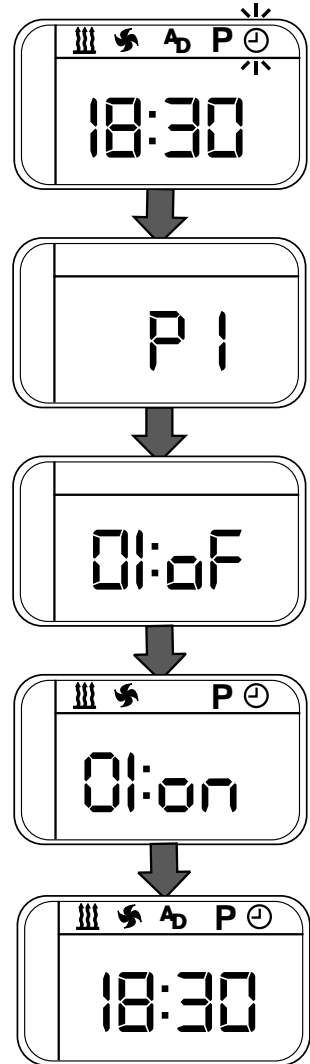
NOTE: To turn any of the preset times off without altering the set times, simply go through to step 3 and select 'OFF' using the arrow keys. Then repeatedly press OK until you have returned to the home screen.



Changing Temperature Scale

The digital timer can either display Celsius (°C) or Fahrenheit (°F) depending on your preference.

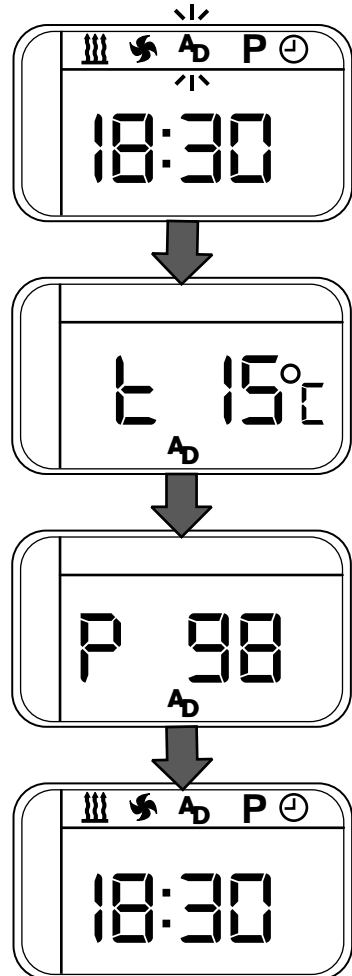
1. Use the arrow keys to navigate to the clock face and press both arrow keys together.
2. 'P1' will appear on the screen.
3. Press 'OK' 3 times until '01:oF' appears on the screen.
4. Press the left arrow key to change the display to '01:on' – Meaning Fahrenheit display is on.
5. Press the power button to return to the home screen.



Information Mode

1. Navigate to the info (AD) symbol and press ok.
2. From here you can see the heater's internal (ambient) temperature reading.
3. Use the arrow keys to view the atmospheric pressure to the nearest 100hPa.
4. Press the power button to return to the home screen

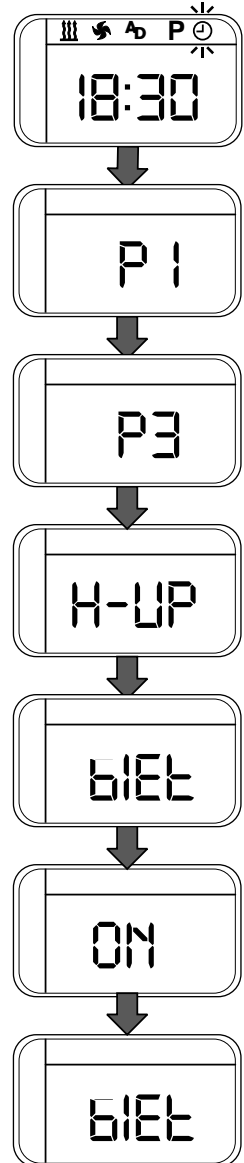
Note: Temperature reading may take several minutes to regulate.





Connecting to Bluetooth

1. Navigate to the clock face and press both arrow keys together.
2. 'P1' will display on the screen.
3. Use the arrow keys to select P3 and press OK.
4. 'H-UP' will appear on the display.
5. Use the right arrow key to select 'bIEt and confirm with OK.
6. Use the arrow keys to turn Bluetooth on or off. When on, the timer can be connected via Bluetooth and the MyBluee App to a smart phone (see separate APP manual for operation).
7. When the controller is connected to a smart phone 'bIEt' will appear on the screen and will remain until the controller has been disconnected. The controller cannot be used when the app is being operated.



Installation Fuel Priming Feature

ATTENTION:

- Not to be used in normal heater operation
- Disconnect the fuel line from the heater first, to prevent flooding of the heater and place in a suitable receptacle.

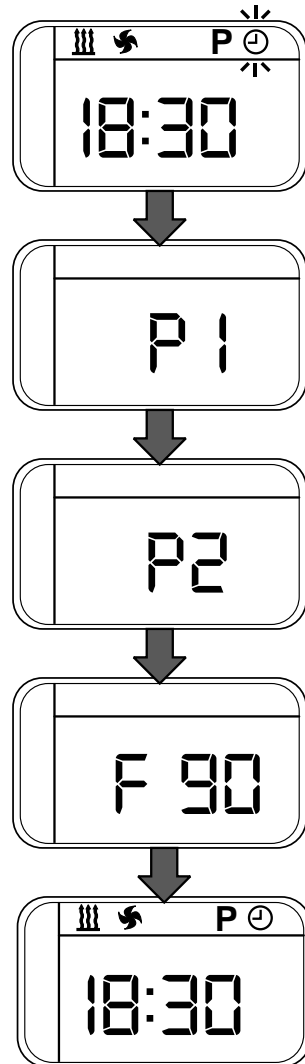
1. To enter the fuel priming mode, navigate to the clock face using the arrow keys and press both arrow keys simultaneously.

2. P1 will display on the screen.

3. Select P2 by pressing any arrow key and confirm with OK.

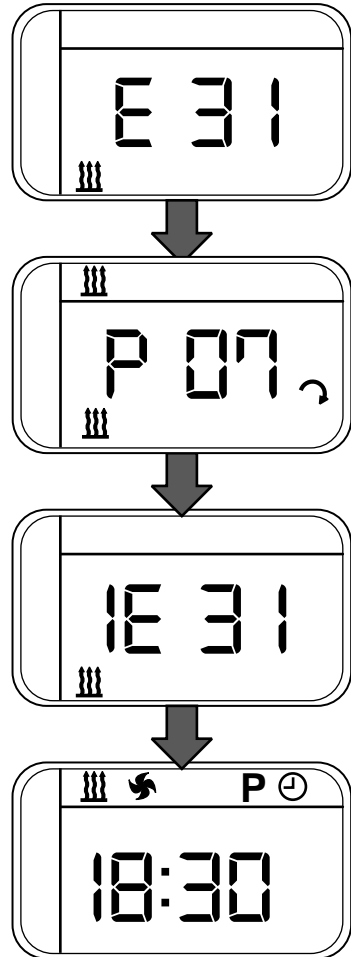
4. The fuel pump will begin to rapidly pump the fuel for 90 seconds. Use the arrow keys to alter the pumping time.

5. It will automatically shut down after 90 seconds or press the power, or 'OK' button to stop pumping at any time and return to the home screen.



Error Code

1. If the heater detects a fault, an error code will be displayed on the controller.
2. The display will alternate between the heating display and the error code until the error has been resolved.
3. Alternatively, press both arrow keys together to bring up the most recent fault code.
4. Once the fault has been resolved, (see page 16 for more information) press the power button to return to the home display. If the display goes into a lockdown state (buttons not activating) the system will need to be hard reset by either removing the main fuse from the loom (12V – 20A, 24V – 15A), or disconnecting the unit from the power supply (battery).



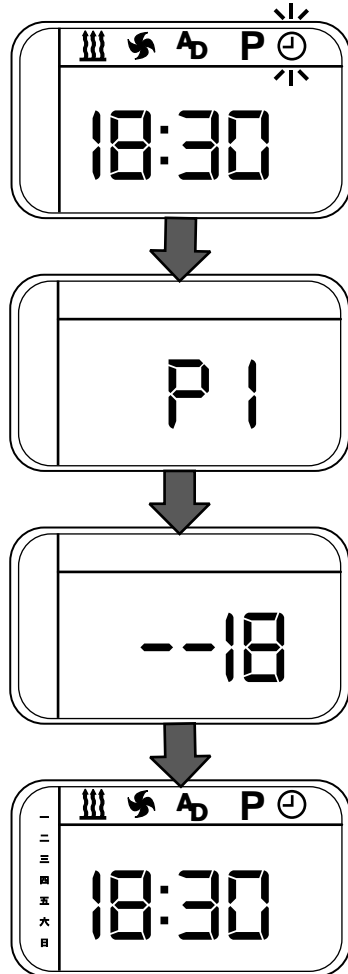
Resetting to Factory Settings

1. Navigate to the clock face on the menu and simultaneously press both arrow buttons.

2. P1 should appear on the screen.

3. Press the right arrow key 3 times until '- -' followed by a number appears and press OK.

4. The control should now be reset to its original factory settings.





Fault Codes

Code on Digital Timer	Error Description	Error Light (Flashing Light) on Rotary Control
00	No Fault	F01
10	Second start failure	
20	Heater does not light in time	F02
21	Combustion termination	
30	Voltage too high	F03
31	Voltage too low	
A9	Voltage too low	
41	Overheated	F10
50	Flame sensor open circuit	F05
51	Flame sensor short circuit	
52	Hot air sensor open circuit	
53	Hot air sensor short circuit	
54	Hot air sensor overheated	
65	Inside temperature sensor broken circuit	F06
66	Inside temperature sensor short circuit	
68	Outside temperature circuit broken circuit	
69	Outside temperature circuit short circuit	
70	Fuel pump short circuit	F07
71	Fuel pump broken circuit	
80	Fan broken circuit	F08
81	Fan short circuit	
82	fan speed too low	
83	Fan speed too high	
84	Fan speed measurement fault	
90	Glow pin open circuit	F09
91	Glow pin short circuit	
92	Glow pin high resistance	
93	Glow plug drive open circuit	
a2	Overheating	F10
b4	Overheating or sensor fault	F11
b5	Overheat sensor fault	
c0	Hydro only - blower relay open circuit	F12
c1	Hydro only - blower relay short circuit	
c4	Preheating temperature broken circuit	
c5	Preheating temperature short circuit	
d0	Crystal oscillator in ECU broken	F13
d1	Fault information storage failure	
d3	Maintenance reminder	
-	Earthing Issue	Constant Flash
-	Connection Issue	Traffic Light



Notes

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