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MV LCD 7-Day Timer

Non-Plateau

Instruction Manual

Ed 1.05

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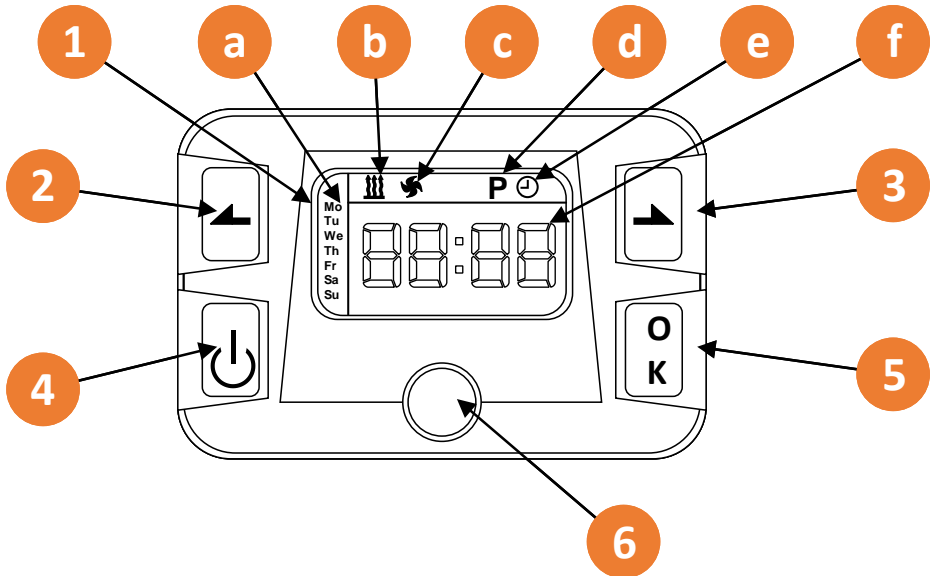
MV LCD Digital Timer



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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 Symbol

c. Fan Symbol (later models only)

d. 'P' (Timer) Symbol

e. Clock Symbol

f. Clock Face

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.

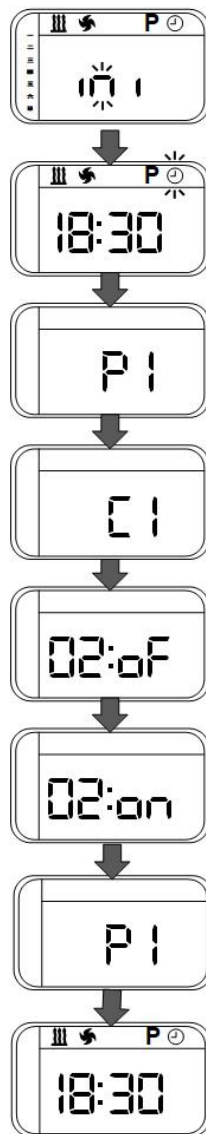
4. Press ok and C1 will appear.

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



Changing the Date and Time

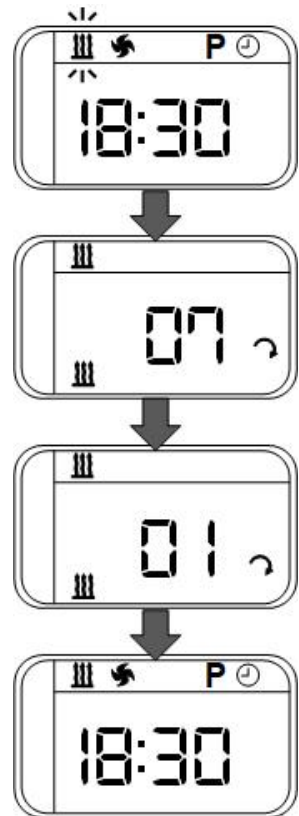
1. To change the date and time, navigate to the clock face symbol and press ok.
2. Select the day of the week it is first using the arrow keys, and pressing ok to confirm.
3. Select the hour using the arrow keys, and pressing ok to confirm.
4. Finally, select the minutes in the same way.
5. Once completed, 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

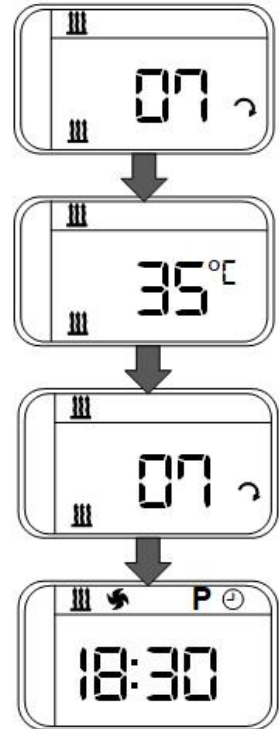
1. To switch the power on manually, navigate to the heating icon, and press ok
2. The heater will start automatically.
3. Use the arrow keys to adjust the output of the heater from high to low (07 to 01 respectively)
4. To switch the heater off, simply press the heater button to return to the home screen.



Switching to Thermostatic Mode

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 for three seconds and then release it.
2. The display should change to a temperature setting which can be adjusted from 05°C to 35°C using the arrow keys.
3. To adjust back to the variable output mode, simply press and hold the ok button again for 3 seconds and then release it.
4. To switch the heater off, press the power button to return to the home screen.



Fan Mode

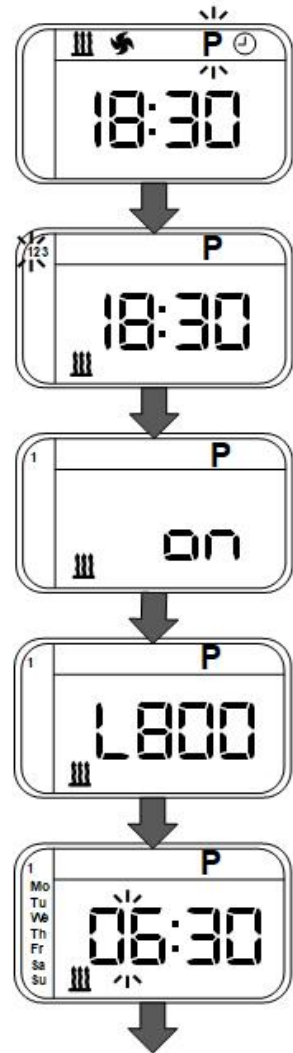
The fan mode works in the same way as the manual on/off mode. Simply navigate across to the fan symbol and confirm with OK. The fan will then automatically switch on and its speed can be adjusted from high to low (07 to 01 respectively) using the arrow keys. To switch it off, press the power button.

NOTE: Some earlier models will not have this function.

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.



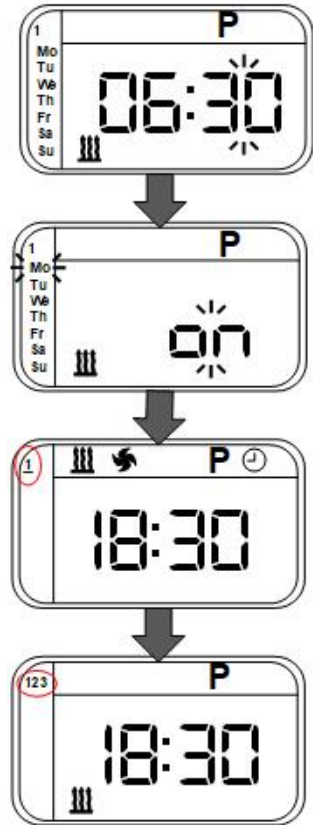
6. Select the minutes in the same way and press OK to confirm.

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, underlined number 1 at the top of the screen.

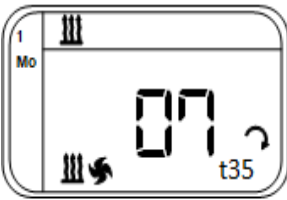
9. To set the second and third heating times, simply repeat all the steps but select 2 or 3 instead of 1 (see step 2.) to set those heating times.

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.

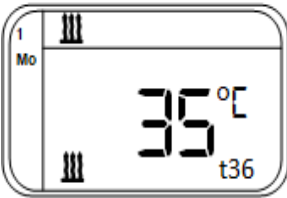


Entering Altitude Mode

1. When the heater is running, press the left arrow key and the 'OK' keys simultaneously. The heating icon, and fan icon should appear at the same time at the bottom of the display. Altitude mode has now been set.

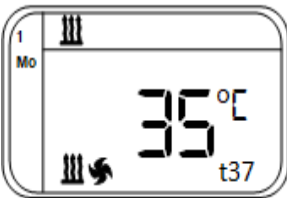


To turn off the altitude mode, press the power button, or press the 'OK' button and left arrow key simultaneously to switch back to the regular heating mode. You can use the arrow keys to change the variable output setting from 01-07.



To change the display to thermostatic mode, press and hold the 'OK' button.

Use the arrow keys to change the temperature control.



The same can be done whilst in altitude mode. Simply press and hold the 'OK' button to change from variable output, to thermostatic mode and use the arrow keys to change the temperature.

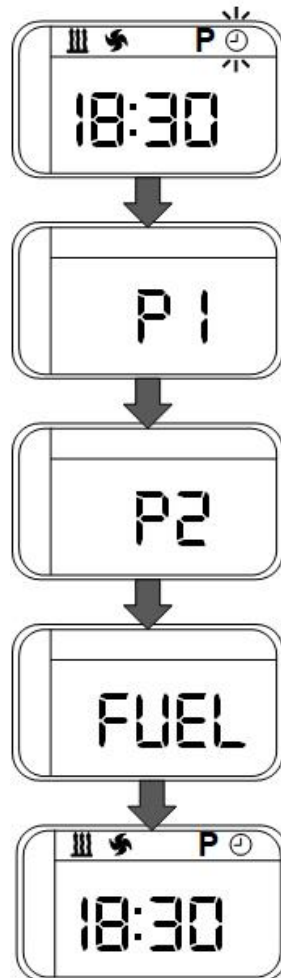
Fault codes can be checked by holding both arrow keys at the same time.

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.

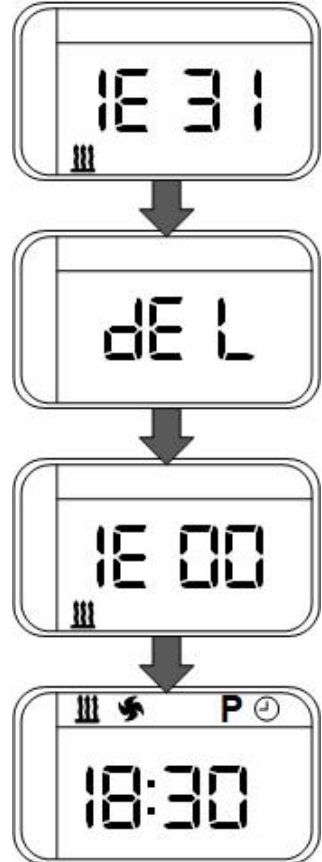
1. To enter the fuel priming mode, navigate to the clock face using the arrow keys and press both arrow keys simultaneously.
2. P1 should appear on the screen.
3. Select P2 by pressing any arrow key, and confirm with OK.
4. The fuel pump will begin to rapidly pump the fuel.
5. It will automatically shut down after three minutes, or press any key to stop the pumping at any time, and return to the home screen.



Checking Error Codes

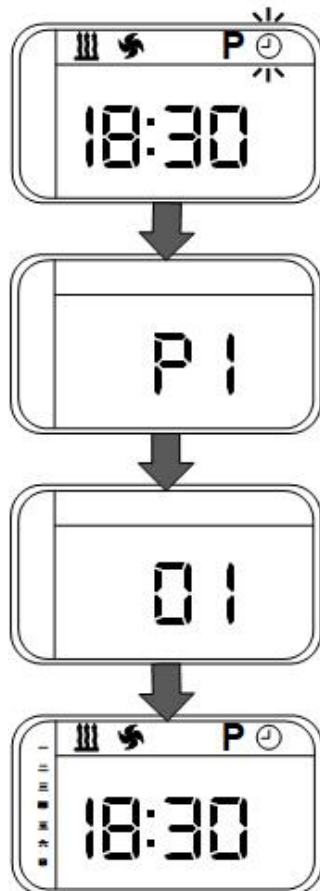
Once an error code has been displayed, and the problem has been amended, follow these steps to reset it.

1. Check the error using the arrow keys. Exit by pressing either OK or the power button.
2. Press both arrow keys to display message 'dEL'.
3. Press OK to delete all errors or power to go back. Once the display reads 'IE00' then no errors have been found.
4. Press OK or power to return.



Resetting Digital Controller 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. Using the left arrow key select '—01', confirm by clicking the 'OK' button.
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



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