



MV MX50-2

Timer Control

OPERATION MANUAL

Ed 1.00

MV Heating UK Ltd
Unit 6
Second Avenue Business Park
Millbrook
Southampton
SO15 0LP



MV Heating UK LTD
+44 (0)2380 522345



Contents

Timer Information..... 2

Operation 3

 Initial Start-Up..... 3

 Adjusting Time and Date..... 3

 Heating..... 4

 Heating Duration Select 4

 Immediate On/Off..... 4

 Timer Setting..... 5

 Pairing Remote Control..... 6

 Using the Remote Control..... 6

 Fuel Priming Mode..... 7

 Checking Status..... 7

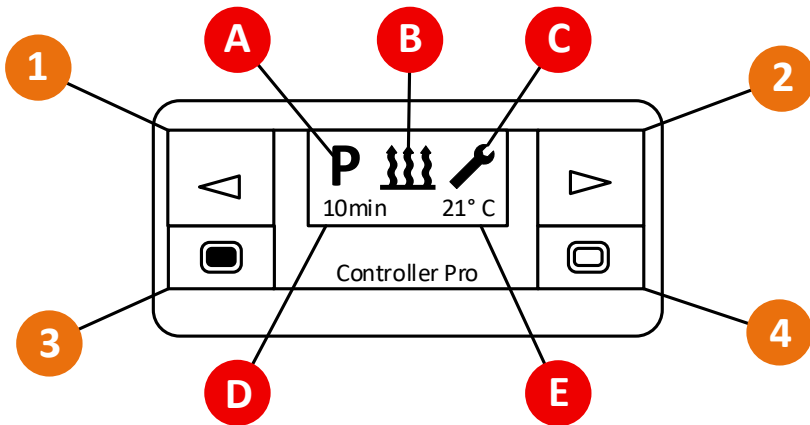
Installation Steps..... 8

 Timer Control Plugs..... 8

Fault Codes..... 9

Notes..... 10

Timer Information



- 1. Left Key
- 3. Return Key

- 2. Right Key
- 4. Enter Key

- A. Timer 'Program' Control
- C. Settings Icon
- E. Ambient/Room Temperature

- B. Heat Mode
- D. Heat Time Duration

Figure 1

Functions:

- On/Off Heating Function
- Three timer settings
- Fuel pump priming mode
- Remote control pairing
- Fault Code Display



Operation

Initial Start-Up

When the heater is powered on for the first time the time and date will need to be entered.

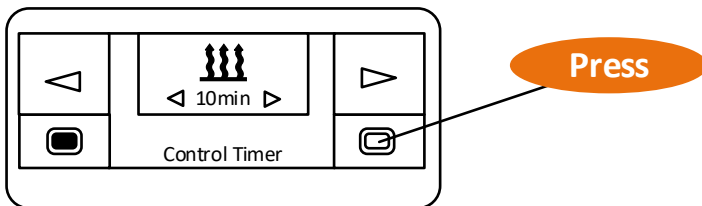
- 1)** Set the time by adjusting the hours with the left and right arrow keys, press the enter key to confirm
- 2)** Set the minutes in the same way, pressing the enter key to confirm.
- 3)** Select the day of the week using the left and right arrow keys and press the enter key to confirm. The time and date have been set but can be adjusted at any time according to the steps below.

Adjusting Time and Date

- 1) To adjust the time and date at any time, press any key to wake the screen up.
- 2) Navigate to the settings icon using the left or right arrow keys and press the enter key to select it.
- 3) Navigate to the clockface icon and adjust in the same way as the previous steps, press enter to confirm.
- 4) Navigate to the calendar icon to adjust the date. Press enter to confirm.

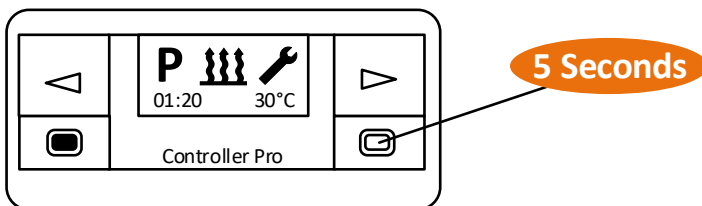
Heating

Heating Duration Select



- 1) Press any key to wake the screen up.
- 2) Press the enter key on the heating icon to select the heaters runtime from 10-120 minutes, or to run indefinitely (∞). Press enter to confirm
- 3) Press and hold the enter key for 5 seconds to turn the heater off.

Immediate On/Off

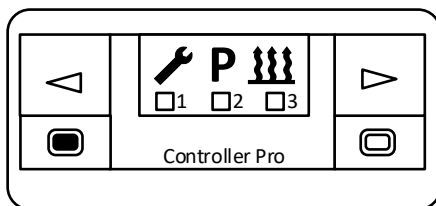


- 1) Press and hold the enter key for 5 seconds to switch the heater on with the last entered heat duration settings.
- 2) Press and hold the enter key for 5 seconds to turn the heater off.

Note: The display will automatically turn off (enter sleep mode) after 60 seconds, but a small dot will appear on the screen indicating the heater is running.

Timer Setting

The timer can be used to select three separate times you would like the heater to start and run for.

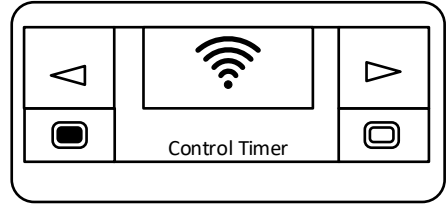


- 1)** Press any key to wake the screen up.
- 2)** Select the 'P' icon using the left or right key and confirm it by pressing the enter button.
- 3)** Enter either the first (P1), second (P2), or third (P2) timing cycle by using the arrow keys and confirming with the enter key.
- 4)** Select the day of the week you would like the heater to start on using the left or right arrow keys and confirm with the enter key.
- 5)** Select the time you would like the heater to turn on using the left and right arrow keys and confirm with the enter key. Selecting the hours first, then the minutes.
- 6)** Select the running time using the left and right arrow keys and press the enter key to confirm (10 – 120 minutes or ∞).
- 7)** Turn the heating time 'ON' by pressing the left or right arrow key (default is 'OFF'), and press enter to confirm. A tick will appear in the box.
- 8)** All other heating times (P2, P3 etc.) are altered in the same way.

Pairing Remote Control

1) Press any key to wake the screen up.

2) Hold the left arrow key, and the return key for 1 second. A WiFi signal icon will appear on the screen.



3) Press the any button on the remote control to pair.

4) Upon successful pairing, the timer will display 'OK'. Press the enter key to return.

NOTE: If the display already reads 'OK' the device is already paired.

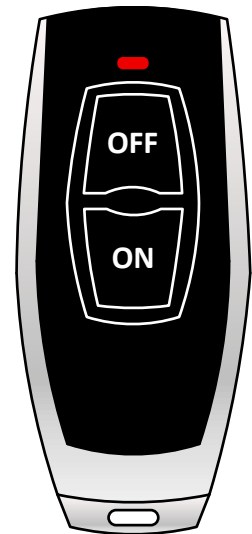
Using the Remote Control

The range of the remote control is 30m.

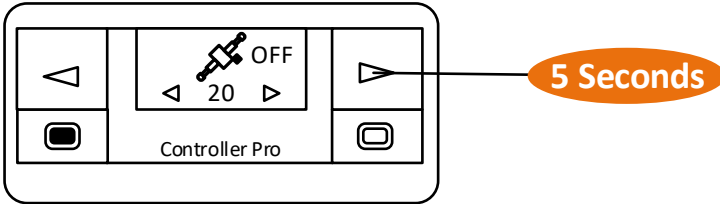
1) Once the remote has been paired, press the 'On' button to switch the heater on.

2) Press off to switch the heater off.

NOTE: The heater will run at the length of time it was last manually started – visible in the bottom left corner of the display.



Fuel Priming Mode



- 1) Press any key to wake the screen up.
- 2) Press and hold the right key for 6 seconds to enter the fuel priming mode.
- 3) Select the seconds you would like the pump to run for (1 – 120) and press enter to confirm and switch on the pump.
- 4) Hold the enter or return key to turn off the fuel priming mode at any time.

Checking Status

Whilst the heater is running, press and hold the left and right keys together to enter the status interface.

This interface allows you to see the working conditions of the heater. Press the return key to go back at any time.

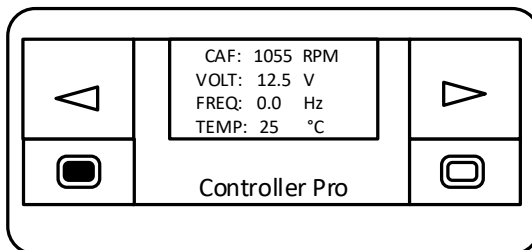


Figure 2

Installation Steps

Timer Control Plugs

The timer is fitted by removing the plastic back, drilling a small hole, then pushing the back of timer in place, and fitting a screw to secure it. They are best installed so that they can be seen and operated easily to identify working conditions and for easy access. Figure 18 shows the plug connections.

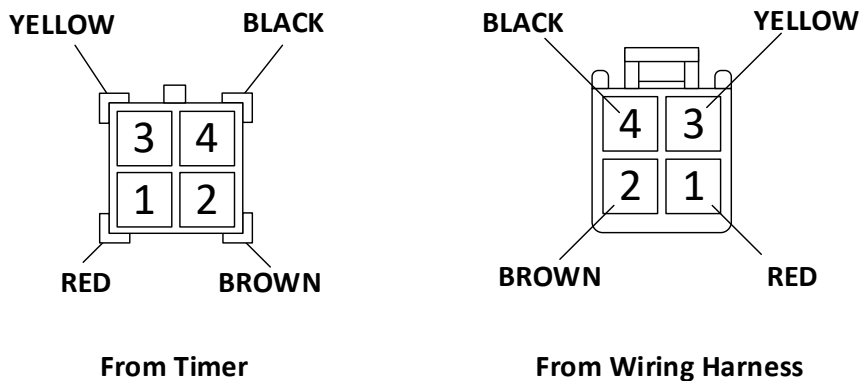


Figure 3

Fault Codes

MX50 Fault Display Table. The diagnostic light will flash five times. The flashing is divided into a long flash - 1 second (represented by 1). And a short flash - 0.2 seconds (represented by 0). There is an interval time of 0.5 seconds between flashes, and an interval time for each group of flashes (or code) of 3 seconds.

Fault	Fault Code	Fault Description
FAULT 00	00000	Flame sensor open circuit
FAULT 01	00001	Load short circuit
FAULT 02	00010	Voltage too high
FAULT 03	00011	Voltage too low
FAULT 04	00100	Flame sensor short circuit
FAULT 05	00101	Overheat sensor open circuit
FAULT 06	00110	Overheat sensor short circuit
FAULT 08	01000	Water Pump voltage high
FAULT 11	01011	Water temperature sensor short circuit
FAULT 12	01100	Water temperature sensor open circuit
FAULT 13	01101	Failure to ignite
FAULT 14	01110	Combustion disrupted
FAULT 18	10010	Glow pin open circuit
FAULT 19	10011	Glow pin voltage too high
FAULT 21	10101	Air motor voltage too high
FAULT 22	10110	Water pump current too high
FAULT 25	1101	Air pressure over low
FAULT 26	11010	Air pressure over high
FAULT 27	11011	Overheat
FAULT 29	11101	No rotation detected in air motor
FAULT 30	11110	Heater not cooling
FAULT 32	11111	No feedback signal detected



Notes

.....

.....

.....

.....

.....

.....

.....

.....

.....