Energy Master
User Instructions

What is a programmer?

… an explanation for householders

Programmers allow you to set 'On' and 'Off' time periods. Some models switch the central heating and domestic hot water on and off at the same time, while others allow the domestic hot water and heating to come on and go off at different times.

Set the 'On' and 'Off' time periods to suit your own lifestyle. On some programmers you must also set whether you want the heating and hot water to run continuously, run under the chosen 'On' and 'Off' heating periods, or be permanently off.

The time on the programmer must be correct. Some types have to be adjusted in spring and autumn at the changes between Greenwich Mean Time and British Summer Time.

You may be able to temporarily adjust the heating programme, for example, 'Override', 'Advance' or 'Boost'. These are explained in the manufacturer's instructions.

The heating will not work if the room thermostat has switched the heating off. And, if you have a hot-water cylinder, the water heating will not work if the cylinder thermostat detects that the hot water has reached the correct temperature.

Making adjustments to the TEC Energy Master

The installation technician will have programmed your TEC Energy Master to match the existing time and temperature levels, providing the comfort you normally enjoy while saving energy. The existing boiler thermostat will have been set higher than normal to allow the Energy Master to perform efficiently. This is perfectly normal, so do not lower this setting. You should not need to make any adjustments – however, two rocker switches are provided, marked '**AUTO-CONSTANT'** and '**HTG/HW-HW ONLY'**. Their functions are explained below.

'AUTO-CONSTANT'

'**AUTO'**　　　　　The unit is working in fully automatic mode.
'**CONSTANT'**　　　The unit is providing a constant output 24 hours a day.

'HTG/HW-HW ONLY'

'**HTG/HW'**　The unit is fully controlling both the heating and hot water (where this applies).
'**HW ONLY'**　The unit is fully controlling the hot water but not the heating.

> **Note:** The Energy Master has a fully automatic mode to switch off the heating when the outside temperature reaches a certain level. Some users may prefer the manual mode as provided by the '**HTG/HW-HW ONLY'** switch.

For users with technical knowledge

The Energy Master has 11 adjustable programs which you can access through the four keypads on the front of the unit. The available programs and settings are as follows.
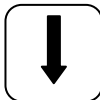

1	Calendar	(Factory set)
2	On/off times	(Two on/off periods a day)
3	Frequency	(Once, twice, 24 hours)
4	Select days	(Every day, weekends, weekdays)
5	Maximum flow temperature	(30ºC to 85ºC)
6	Minimum flow temperature	(25ºC to 85ºC)
7	Minimum return/hot water temperature	(20ºC to 65ºC)
8	Night temperature	(0ºC to 85ºC)
9	Frost temperature	(0ºC to 35ºC)
10	External cut-off temperature	(0ºC to 35ºC)
11	Calibration (engineers only)	(-10ºC/+20ºC)

Common adjustments

1 Too warm or too cool when the outside temperature is 0⁰C

To increase or lower the flow temperature during winter conditions, do the following.

Press **P** and then **↑** repeatedly until '**MAX FLOW TEMP**' is displayed (for example, 75⁰C).

PROGRAM   **SELECT**

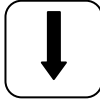Press **P** again and then **↑** or **↓** to increase or lower the temperature (for example, by 2°C to 3⁰C).

PROGRAM   **SELECT** **RETURN**

Press **E** to store the new setting and press it again to leave program mode.

ENTER

2 Too warm or too cool during mild conditions

To increase or lower the flow temperature during mild conditions, do the following.

Press **P** and then **↑** repeatedly until '**MIN FLOW TEMP**' is displayed (for example, 55⁰C).

PROGRAM   **SELECT**

Press **P** again and then **↑** or **↓** to increase or lower the temperature (for example, by 2°C to 3⁰C)**.**

PROGRAM   **SELECT** **RETURN**

Press **E** to store the new setting and press it again to leave program mode.

ENTER

3   Adjusting the hot-water temperature

To increase or lower the hot-water temperature (where this applies), follow steps 1 and 2 until '**RTN-HW Temp**' is displayed and adjust and store as previously described.


4   Adjusting the on and off times (programmer)

To change the programmed on and off times, do the following.

Press **P** and then **↑** once to display 'ON-OFF TIMES'.

PROGRAM   **SELECT**

Press **P** again and the display will show the on and off times for 'MON'.

PROGRAM

To adjust, press **P** twice to set the first **on** time (the hour digit will flash).

PROGRAM

Set the time with the **↑** and **↓** keys.

SELECT   **RETURN**

Press **E** to store the new setting, and the first **on** minutes will begin to flash.

ENTER

Repeat as above to change the minutes and then press **E** to set the first **off** hour and minutes as described above.

ENTER

Repeat as described above for setting the second on and off times, if necessary.

After pressing **E** for the final time, the display will show the new settings for Monday.

ENTER

To repeat the on and off times for other days of the week, press ↑ to show 'TUES'.

SELECT

Press **P** then **E** to copy Monday's on and off times.

PROGRAM   **ENTER**

Press ↑ to display 'WEDS' and repeat as above as necessary.

SELECT

If you need to set different times for weekends, program individual days as described before.

Note: If you do not need two on and off times, set the **first on time** and the **second off time** and set the next program, **'FREQUENCY'** to **'ONCE'**.

The changes described above are the only ones you should need to adjust. If you need advice, please phone 01782 599313 and ask for our technical department.

Current settings (to be filled in by the installation engineer)

Program 1	Factory set

Program 2

	First on			First off			Second on			Second off	
Monday	First on			First off			Second on			Second off	
Tuesday	First on			First off			Second on			Second off	
Wednesday	First on			First off			Second on			Second off	
Thursday	First on			First off			Second on			Second off	
Friday	First on			First off			Second on			Second off	
Saturday	First on			First off			Second on			Second off	
Sunday	First on			First off			Second on			Second off	

Program 3	

Program 4	

Program 5	

Program 6	

Program 7	

Program 8	

Program 9	

Program 10	

Program 11	Engineers only

Customer's signature

Notes

Current settings (to be filled in by the installation engineer)

Program 1	Factory set

Program 2	

	First on		First off		Second on		Second off	
Monday	First on		First off		Second on		Second off	
Tuesday	First on		First off		Second on		Second off	
Wednesday	First on		First off		Second on		Second off	
Thursday	First on		First off		Second on		Second off	
Friday	First on		First off		Second on		Second off	
Saturday	First on		First off		Second on		Second off	
Sunday	First on		First off		Second on		Second off	

Program 3	

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Program 10	

Program 11	Engineers only

Customer's signature _____

Notes