

# POTTERTON CONTROLS

## CUSTOMER GUIDE FOR THE EP2000/EP2002/EP3002

### 1) THE PROGRAMMER AND YOUR SYSTEM

If you have an EP2000 Programmer, then you can set the HOT WATER and CENTRAL HEATING to come ON together for two time periods a day.

If you have an EP2002 Programmer, then you can set the HOT WATER and CENTRAL HEATING to come ON together for two time periods a day, from MONDAY to FRIDAY, with different ON/OFF times for SATURDAY and SUNDAY, if required.

If you have an EP3002 Programmer, then you can set the HOT WATER and CENTRAL HEATING to come ON together for two time periods a day, with different ON/OFF times for each day, if required.

### 2) SETTING THE PROGRAMMER FOR BUILT-IN ON/OFF TIMES

The programmer already has built-in ON/OFF time periods, which are:

| MODEL  | ON1    | OFF1   | ON2    | OFF2    |                         |
|--------|--------|--------|--------|---------|-------------------------|
| EP2000 | 6.30am | 9.30am | 4.30pm | 10.30pm |                         |
| EP2002 | 6.30am | 9.30am | 4.30pm | 10.30pm | (MON - FRI) (SAT - SUN) |
| EP3002 | 6.30am | 9.30am | 4.30pm | 10.30pm | (MON - SUN)             |

These times can be used, by setting the correct time and day, as described for the 3 models in section 1.2, 2.2 or 3.2 overleaf.

To set up your own ON/OFF times for your model, refer to section 1.3, 2.3 or 3.3 overleaf.

If you wish to return to the built in time periods, after changes have been made to them, simply:

Ensure the slider is in RUN position. Press and hold down the STEP & + button, then after 5 seconds, release the 2 buttons.

The built-in times are now reinstated.

### 3) HOW TO SET YOUR PROGRAMMER

Model: **EP2000**

1.1 OPEN DOOR from top edge

1.2 TO SET THE CLOCK

Move slider to CLOCK. Adjust displayed time, using - & + buttons

1.3 SETTING THE ON/OFF TIMES

Move slider to SET. Adjust ON1 time, using - & + buttons

1.4 Press STEP button.

Adjust OFF1 time, using - & + buttons. Repeat for ON2 & OFF2

1.5 When complete, move slider to RUN

CLOSE DOOR

Model: **EP2002**

2.1 OPEN DOOR from top edge

## 2.2 TO SET THE CLOCK & DAY

Move slider to CLOCK. Adjust displayed time using - & + buttons.

Adjust day, by pressing DAY button

## 2.3 SETTING THE ON/OFF TIMES (MON to FRI)

Move slider to SET. Adjust ON1 time, using - & + buttons

## 2.4 Press STEP button

Adjust OFF1 time, using - & + buttons. Repeat for ON2 & OFF2

## 2.5 SETTING THE ON/OFF TIMES (SAT & SUN)

Press DAY button.

Repeat above steps to set up SAT & SUN ON1, OFF1, ON2, OFF2

## 2.6 When complete, move slider to RUN

CLOSE DOOR

## Model: EP3002

### 3.1 OPEN DOOR from top edge

## 3.2 TO SET THE CLOCK & DAY

Move slider to CLOCK.

Adjust displayed time, using - & + buttons. Adjust day, by pressing DAY button

## 3.3 SETTING THE ON/OFF TIMES (MON - SUN)

Move slider to SET. Adjust ON1 time, using - & + buttons.

## 3.4 Press STEP button.

Adjust OFF1 time, using - & + buttons. Repeat for ON2 & OFF2

Press DAY button, to go to next day.

Repeat above steps to set up the remaining days.

## 3.5 COPYING ON/OFF TIMES, TO NEXT DAY

Press DAY button, to select day you want to copy

Press COPY, to copy ON/OFF times, to next day. Repeat as required.

## 3.6 Example of ON/OFF times copied to next day

## 3.7 When complete, move slider to RUN and CLOSE DOOR

## 4) USING THE HW AND CH SLIDERS

During Normal Operation, by moving these sliders you can select how you wish your system to work:

OFF Ignores the ON/OFF time periods set in memory

TIMED Allows the CH or HW to run to the ON/OFF times you have set in the programmer's memory

**ONCE** Allows your CH or HW to run once a day from the first ON time to the last OFF time

**ON** Will turn the CH or HW on continuously 24 hours a day

The channel indicators to the right of the HW/CH sliders will illuminate when the relevant channel is ON and extinguish when the channel is OFF.

The HW & CH sliders have a mechanical interlock to protect simple heating systems which can only heat the radiators when the HOT WATER is on. If yours is a simple system, the interlock will automatically cut the programming facilities that your system cannot cope with. This means the HOT WATER is automatically turned ON, when CENTRAL HEATING is on.

## **5) USING THE ADVANCE BUTTONS**

The ADV buttons allow you to go forward to the next ON or OFF time, when the sliders are in TIMED or ONCE position. The button on the HW channel advances HW, and the CH button advances CH. The status of either channel is shown by the indicators to the right of the sliders.

To advance the programme, simply press the relevant ADV button and the CH or HW will go OFF (IF ON) or ON (IF OFF); press again to return to original status.

## **6) USING THE EXTEND BUTTONS**

The EXT buttons allow you to extend a current ON period or switch your HW or CH on, during an OFF period for 1, 2 or 3 hours. If you press the button a fourth time, the programmer will return to the original set times.

**NOTE:** Using either the EXT or ADV buttons will not affect the ON/OFF times set in the programmer's memory, the change is only temporary.

When the interlock is set for simple heating systems, pressing the EXT or ADV buttons on CH will also extend or advance the HW.

## **7) OPERATION NOTES**

It does take time for the boiler to produce the required heating and hot water temperatures, so set the programmer switch ON, for example, half an hour earlier than required.

Other controls in your system (such as room, boiler and cylinder thermostats) may affect the switching of your boiler. So although the indicator shows that the central heating is ON, the boiler itself could be OFF. (Ask your installer to explain how they work)

## **8) PROGRAMMER MEMORY BACKUP**

If the electricity fails or is switched off, the display will go blank and the programmer will maintain the set times and the clock for 12 hours. After that time, you may have to reset the clock and ON/OFF times.

**NOTE:** During the time that the electricity is off, any electrical items, e.g. Boiler, pumps etc, will not operate.

## **9) GUIDE TO OPERATIONAL PROBLEMS**

**WARNING: DISCONNECT THE MAINS SUPPLY BEFORE THE PROGRAMMER IS REMOVED**

Ensure ALL supplies to the programmer are fused at 3 Amps. Internal damage can occur if not correctly protected (5 Amp % 13 Amp fuses are NOT suitable)

## **10) DIAGNOSING POSSIBLE OPERATIONAL PROBLEMS**

### **No clock display**

1. Check mains supply switch to programmer is ON
2. Check mains supply fuses to programmer are OK

**Buttons will not function**

EXT and ADV buttons will not work if the HW or CH slider are in OFF or ON mode, or the slider under the door is not set to RUN

**Heating and Hot Water will not work**

1. Check remedy points under 'No clock display'
2. Check programmer output is ON  
(i.e indicator is lit)
3. Check that the external Thermostats are turned up

**Heating not working, but HOT WATER is working**

Check the 10/16 interlock setting. (For simple systems) See Installers Guide Instruction.

**Incorrect time displayed**

See "How to Set Your Programmer" section

**If normal operation cannot be achieved by the above remedies**

RESET Programmer by pressing + & - buttons at the same time (time of day and ON/OFF times may need to be set). If symptoms persist contact me