

CHPPR2 2 Channel Programmer User Instructions

The latest ESP product manuals can be found on-line:



1 Features:

CHPPR2 is a two channel programmer, designed for separate control of your heating and stored hot water. The heating and hot water programs are independent of each other, giving you the opportunity to save money and control your heating in the most energy saving manner possible.

- 24 hour, 5/2 day and 7 day selectable
- 2 or 3 ON/OFF periods selectable
- 1,2 or 3 hour boost
- Advance to next programmed event
- Automatic Summer/Winter time change
- Factory set time & date
- Program options - ON, OFF, All day or Auto
- Large and clear to read illuminated display
- With/without service interval functionality
- Suitable for pumped heating systems
- Standard wall plate - simple plug in and replace

2 Operation Guide:

2.1 Open the front cover to show the hidden panel (as Fig. 1), and complete all the settings as per below operation guide.

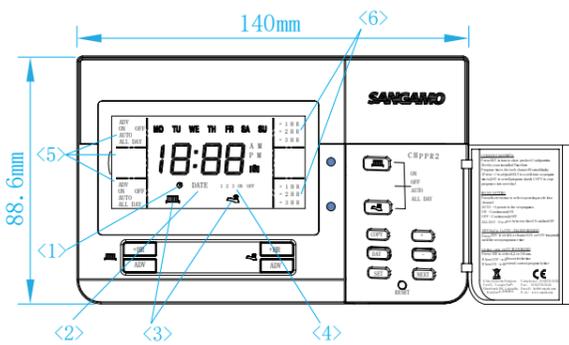


Fig.1

2.2 Configuration:

When setting time, date or changing programme times the first screen displayed indicates the configuration as set up by the installer. (See 'Setting The Time section).

| Configuration | Display |
|---------------------------|---------|
| 2 ON / OFF Pumped System | 2 PU |
| 3 ON / OFF Pumped System | 3 PU |
| 2 ON / OFF Gravity System | 2 Gr |
| 3 ON / OFF Gravity System | 3 Gr |

Times for Central Heating and Hot Water can be independently set.

The 24 hour, or 5 day/2day, or 7 day programming option as set up by the installer can also be verified at this stage by how the Monday to Sunday indicators are displayed.

| Programming Option | Mon to Sun Indicators flash |
|--------------------|---|
| 7 DAY | Mon to sun individually shown |
| 5 / 2 DAY | Mon to Fri together then Sat & Sun together |
| 24 HOUR | Mon to sun together shown |

2.3 Built in Programme:

For convenience, the programmer has a built in programme which will be satisfactory for many people, but which can be changed very easily (see section CHANGING PROGRAMME TIMES). Once the unit is powered up this built in programme will run. If the user changes from the built in programme and wishes to return to it, then pressing the reset button with a non metallic pointed tool will return the unit to the built in / default programme.

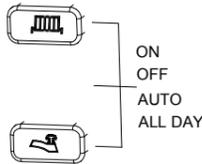
NOTE: Every time the reset is pressed, the time and date must be set again. See the sections 'Setting The Time & Setting The Date'.

2.4 Factory Programme Settings:

| 2 PU & 2 Gr | 3 PU & 3Gr | Mon - Fri | Sat - Sun |
|-------------|------------|------------|------------|
| 1st ON | 1st ON | 6:00am | 7:00am |
| 1st OFF | 1st OFF | 8:30am | 9:00am |
| - | 2nd ON | 12:00 noon | 12:00 noon |
| - | 2nd OFF | 12:00 noon | 12:00 noon |
| 2nd ON | 3rd ON | 4:30 pm | 4:30 pm |
| 2nd OFF | 3rd OFF | 10:30 pm | 11:30 pm |

If the unit is installed as a 24 hour programmer, the built in programme will be the same for each day (i.e. Sat-Sun be same as Mon-Fri above).

2.5 Selecting Operating Mode:



| | |
|---------|--|
| ON | Central Heating and Hot Water is ON continuously |
| AUTO | Central Heating and Hot Water will be switched ON or OFF as programmed |
| ALL DAY | Central Heating and Hot Water will be switched ON only once each day between the first ON time and last OFF time |
| OFF | Central Heating and Hot Water is OFF continuously |

2.6 Setting the Time:

1. Press the SET button once. The configuration setting will appear on the screen (see Fig.2).

2. Press the SET button again. The clock icon [1] on the screen will flash (See Fig 3).

3. Press the +/- buttons to adjust the time. Time will change quicker if pressed continually.

4. Press SET once to move on to setting the DATE or press multiple times to return to RUN mode (Fig. 4).



Fig.2



Fig.3



Fig.4

2.7 Setting the Date:

1. Press the SET button until the Y:XX icon (year) appears and the D (DATE) icon [2] flashes (see Fig.5).

2. Press the +/- button to set the year.

3. Press NEXT button. M:XX appears (month) (see Fig.6).

4. Press +/- button to set month.

5. Press NEXT button. D:XX appears (Day) (see Fig.7).

6. Press +/- button to set day.

You can review or edit the date you have set just by pressing NEXT button again and repeating the sequence above. To confirm the date and move on to PROGRAM mode press SET button once or press SET button multiple times to return to RUN mode.

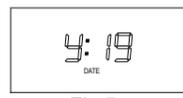


Fig.5



Fig.6

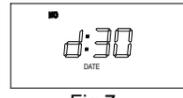


Fig.7

2.8 Change Central Heating Times:

The built in programme can easily be changed to better suit your lifestyle.

- Press SET button until radiator icon [3] flashes in the display and 1 ON [4] appears. This indicates the time shown on the display is the first ON time (see Fig.8).
- By pressing the +/- buttons you can alter the ON time to the time you want.
- Press NEXT button, display will now show 1 OFF [4].
- By pressing the +/- buttons you can alter the OFF time to the time you want (see Fig.9).
- Press NEXT button to access remaining ON/OFF periods and alter in same manner as above.
- To return to RUN mode, press the SET button until the display return to run mode (Fig.4)

NOTE: Programming is in 10 minute segments.



Fig.8



Fig.9

2.9 Change Hot Water Times:

Press SET button until tap icon [3] flashes in the display and 1 ON [4] appears. This indicates the time shown on the display is the first ON time of hot water (see Fig. 10) and proceed in same manner as 'To change the Central Heating Times' above.

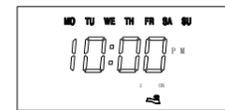


Fig.10

• 7 Day Programmer Option:

If the unit is installed as a 7 day programmer, the initial programme displayed will be for Monday. You can go to any date of the week by pressing the DAY button repeatedly.

The ON/OFF times can be changed for each day as described above in the section "CHANGING PROGRAMME TIMES". If you press the COPY button, the current programme will be copied onto the next day.

NOTE: it is not possible to copy Sunday to Monday.

• 5/2 Day Programmer Option:

If the unit is installed as a 5 day/2 day programmer, the initial programme displayed will be for Monday to Friday. Pressing the DAY button will take you to the programme for Saturday and Sunday.

The ON/OFF times can be changed for each day group as described above in the section "CHANGING PROGRAMME TIMES".

If you press COPY button, the current programme will be copied onto the next day group.

• 24 Hour Programmer Option:

If the unit is installed as a 24 hour programmer, the built in programme will be the same for each day.

The COPY & DAY buttons have no affect if installed as a 24 hour programmer.

2.10 Programming Notes:

The unit will automatically return to normal running mode if a period of 30 seconds passes without any buttons being pressed. Programming past midnight is NOT allowed. To overcome this the program needs to be split in two parts from midnight as per example-

Desired program period - on 10:00pm off 7:00am
make Prog 1 - on 12:00am off 7:00am
make Prog 2 - on 10:00pm off 12:00am

2.11 Reset:

Press the reset button with a non-metallic pointed tool to restore the built in programme. As well as restoring the built in programme, it also resets the time to 12:00pm and the date to 01/01/2020.

Initially the display shows all segments lit for a few seconds, but then will show the current configuration. See 'Setting The Time' section to continue.

As a safety feature, after reset the unit will be in OFF operating mode. Reselect your required operating mode.

2.12 Using Advance:

The ADVANCE function allows the user to move to the next ON or OFF programme for a "one off" event, without having to change the programme or change the operating mode.

Warning: The ADVANCE function is only available when programme is in AUTO or ALL DAY operating modes.

• To Advance Central Heating:

Press the Central Heating channel ADV button. This will turn the Central heating ON if it is in an OFF period and OFF if it is in an ON period. It will stay in this state until either ADV button is pressed again, or until a programmed ON/OFF period commences. The word ADV [5] will appear in the left hand of the LCD.

• To Advance Hot Water:

Press the Hot Water channel ADV button. This will turn the Hot Water ON if it is in an OFF period and OFF if it is in an ON period. It will stay in this state until either ADV button is pressed again, or until a programmed ON/OFF period commences. The word ADV [5] will appear in the left of the LCD.

2.13 Using +HR Boost:

• For +Hr Central Heating:

Press the Central Heating channel +HR button to make the desired selection with one, two or three hours extra heating [6] and cancel options offered.

 **Warning:** The +HOUR function is only available when programme is in AUTO, ALL DAY or OFF operating modes.

If the Central heating operating mode is OFF, then it will switch on for the extra hours selected. If the Central heating mode is AUTO or ALL DAY, then during an OFF period, it will switch on for the extra hours selected. If during an ON period, then it will temporarily extend that programme by the number of hours selected.

• For +Hr Hot Water:

Press the Hot Water channel +HR button to make the desired selection with one, two or three hours extra heating [6] and cancel options offered.

 **Warning:** The +HOUR function is only available when programme is in AUTO, ALL DAY or OFF operating modes.

If the Hot Water operating mode is OFF, then it will switch on for the extra hours selected.

If the Hot Water mode is AUTO or ALL DAY, then during an OFF period, it will switch on for the extra hours selected. If during an ON period, then it will temporarily extend that programme by the number of hours selected.

 **NOTE:** If the programmer is in the OFF mode and then +HR button is pressed (+1 HR, +2 HR, or + 3 HR) and the resulting time of the boost overlaps a START / ON time in the AUTO mode programme memory, then the boost will disengage. If this happens simply press +HR button again and then it will temporarily extend that programme by the number of hours selected.

2.14 Holiday Mode:

The Holiday function allows the user to turn all channels to the OFF operating mode, for a settable amount of days from 01-99 days. During this function, a suitcase icon will be displayed (see Fig 11).

The number of days will decrease at midnight each day. The +HR boost override can be used during a holiday period.

1. Press & Hold DAY button for 4 seconds to enter the holiday function, d:01 flashes (see Fig. 12).
2. Press +/- button to set the holiday days.
3. Press DAY button to activate.
4. Press & Hold DAY button for 4 seconds to cancel a holiday period.

 **Warning:** The Holiday function is only available in AUTO, ALL DAY or ON operating modes.



Fig.11

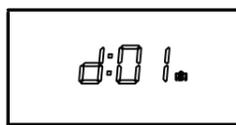


Fig.12

2.15 Power Interruption :

In the event of a mains supply failure, the screen will go blank, but the programmer continues to keep the time and retain your stored programme.

When power is restored, if there has been no change to the rear DIP switch, the programmer returns to its expected operating condition.

If the configuration setting on the rear DIP switch has been altered during the power interruption, the screen will initially show the new configuration. And the appropriate factory default programme (see BUILT IN PROGRAMME section) will be installed.

Press SET button to return to RUN mode.

2.16 Service Interval Function Setting:

If you are a tenant, under The Gas Safety (Installation & Use) Regulations 1998, your private landlord, local authority or housing association must carry out a 12 monthly gas safety check to make sure gas fittings and appliances are safe to use.

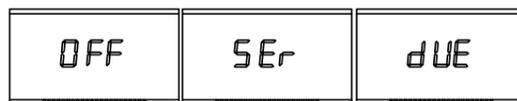
If set by the installer, 28 days prior to the boiler service due date, a rotating visual warning message SEr, dUE, dXX will remind you that a service is due (XX shows the number of days remaining in the warning period).



The display backlight will also flash on and off from 7 days prior to the boiler service due date. During this warning period, the programmer will continue to operate normally and you have full access to all its features.

If the boiler is not serviced within the 28 days then the programmer will operate only according to one of two settings (selected by the installer on installation). All buttons will be disabled. The display backlight will continue to flash.

• A visual warning message OFF, SEr, dUE indicates the installer has set the programmer for a Total Shutdown and your heating/hot water will no longer operate.



• A visual warning message 15, rUn, SEr, dUE indicates the installer has set the programmer for a Partial Shutdown and your heating/hot water will operate for a random 15 minute portion of each programmed hour only. Therefore, to ensure your comfort level is maintained, it is important to respond to any requests for a gas safety check/boiler service appointment and to keep to the appointment. Contact details for the installer/landlord may be shown on a Service Contact label affixed to the product. The installer will cancel or reset the Service Interval Timer as part of the safety check/boiler service.



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Health & Safety

This unit must be installed by a suitably qualified person in accordance with the latest IEE Wiring Regulations.

Isolate mains supply before commencing installation. Please read all installation instructions before proceeding.

Example circuit diagrams for typical installations are shown. These diagrams are schematic and should be used as a guide only. Please ensure that all installations comply with the current IEE regulations. For reasons of space and clarity not every system has been included and the diagrams have been simplified, for instance some Earth connections have been omitted. Other control components shown in the diagrams i.e. Valves, Room Stats etc. are general representations only. However, the wiring detail can be applied to the corresponding models of most manufacturers.

Your product is not user serviceable. Do not dismantle this product.

Due to our policy of continuous product improvement and development, the specifications in this guide may be subject to change without prior notice.

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