

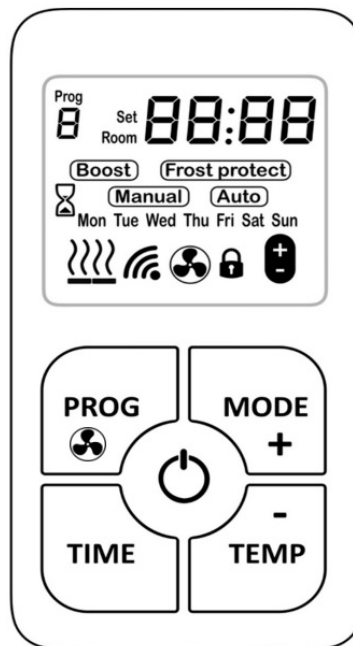
CONSORT HRXSL Handheld Controller Installation Guide

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CONSORT HRXSL Handheld Controller



Product Information

The HRXSL Wireless Controller is a versatile device designed to control an unlimited number of SL and RX heaters within range. It must be paired with each heater to enable operation. The controller offers various operating modes, including Boost, Manual, Frost Protect, and Auto. It also has two special operating modes: Manual Control Mode and Local Temperature Control Mode. The HRXSL features a standby mode where heating is deactivated and the display is blank. It has a built-in display for adjusting settings and temperature.

Product Usage Instructions

- Pairing the heater to the HRXSL:** Before using the HRXSL controller, ensure that each heater is paired with the controller. Refer to the heater's user manual for instructions on how to pair it with the HRXSL.
- Basic Operation:** Press the standby button to enter or exit Standby Mode. In Standby Mode, heating is deactivated, and the display is blank. Press the MODE button to cycle through the operating modes: Boost, Manual, Frost Protect, and Auto.
- Adjusting Operating Modes/Settings:** To adjust the operating mode/settings, activate the display by pressing the power button if in Standby Mode or any of the TIME, TEMP, or MODE buttons once if not in Standby Mode. The display will be activated for 10 seconds.
- Boost Mode:** Boost mode increases the room temperature for 15 minutes. To amend the set temperature in Boost mode, activate the display, press TEMP, and use the + and – buttons to change the temperature. Leave the display to return to the main screen, and the settings will be saved. The HRXSL will return to the previous operating mode after 15 minutes. To increase the boost period, activate the display in Boost mode and press the PROG button. The boost period can be increased up to 4 hours.
- Auto Mode:** In Auto mode, the HRXSL follows the week's time/temperature program. To temporarily override the temperature in Auto mode, activate the display and use the + and – buttons to set the new temperature. The new set temperature will be maintained until the next program step. Use the PROG button to advance to

the next program or clear advance mode.

6. **Manual Temperature Mode and Fan Only Control:** Refer to pages 5 & 6 of the user manual for information on how to set up the program schedule.

INTRODUCTION

- All electrical appliances produced by the Company are guaranteed for one year against faulty materials or workmanship. This applies only if the appliance has been used for purposes in accordance with the instructions provided and has not been connected to an unsuitable electricity supply, or subject to misuse, neglect, damage or modified or repaired by any person not authorized by us. This guarantee is offered to you as an extra benefit and does not affect your legal rights.
- The correct electricity supply voltage is shown on the rating label attached to the appliance.
- Reasonable care has been taken to ensure that this guide is accurate at the time of printing. In the interests of progress the Company reserve the right to vary specifications from time to time without notice.

CUSTOMER HELPLINE

Should you need any advice on the use of your new Consort product please contact our Helpline:

- **Consort Equipment Products Limited**
- Thornton Industrial Estate, Milford Haven, Pembrokeshire, SA73 2RT
- **Tel:** 01646 692172
- **Fax:** 01646 695195
- **Email:** technical@consortepl.com
- **Web:** www.consortepl.com
- **Operation hours:** Mon to Thu 8.30am to 4.30pm | Fri 8.30am to 3.30pm
- BS EN ISO 9001 Registered Company No FM12671

WARNINGS

- Keep the batteries out of reach of children
- Do NOT use if the battery compartment is not secure
- Dispose of used batteries correctly and safety
- Operating temperature range -10 to +40°C.

Overview

The HRXSL wireless controller can control an unlimited number of SL and RX heaters provided they are within range. To do this, the controller must be paired with each heater. The heater will not operate until it has been paired to the controller.

Pairing the heater to the HRXSL

In order to pair your appliance with the controller you must:

- Ensure power to the appliance is OFF.

- Turn power to the appliance ON.
- Within 20 seconds, press and hold the PROG and MODE buttons on the controller until the display shows 'PAIR'
- The heating will switch on. If the heating is set to off, after 4 seconds the heating will turn off.
- The appliance is now ready to be used.

Basic operation

- The HRXSL also has a STANDBY MODE. To enter/exit this mode, press the standby button. In STANDBY MODE, the heating will not be activated and the display will be blank.
- The HRXSL has 4 standard operating modes: BOOST, MANUAL, FROST PROTECT and AUTO.
- Each mode can be selected by pressing the MODE button to cycle through the options. The cycle sequence will always start with BOOST mode followed by MANUAL, FROST PROTECTION and AUTO.
- The HRXSL also has two special operating modes. These are MANUAL CONTROL MODE and LOCAL TEMPERATURE CONTROL MODE. These are accessed via setup menu.
- To adjust the operating mode/settings of the HRXSL, the display must first be activated.
- If the controller is in STANDBY MODE, press the power button. The controller will exit standby mode and the display will be activated for 10 seconds. If the controller is not in STANDBY MODE, press any of the TIME, TEMP or MODE buttons once. The display will be activated for 10 seconds.

Boost mode

- The boost feature increases the room temperature for 15 minutes.
- To amend the set temperature when in BOOST mode, activate the display and then press TEMP. Next, use the + and – buttons to change the temperature. Once the temperature is set, you can leave the display to return to the main screen and the settings will be saved. After 15 minutes, the HRXSL will return to the previous operating mode.
- Whilst in boost mode, activate the display and press the PROG button to increase the boost period. The boost period can be increased up to 4 hours. This will reset back to 15 minutes once you exit boost mode.

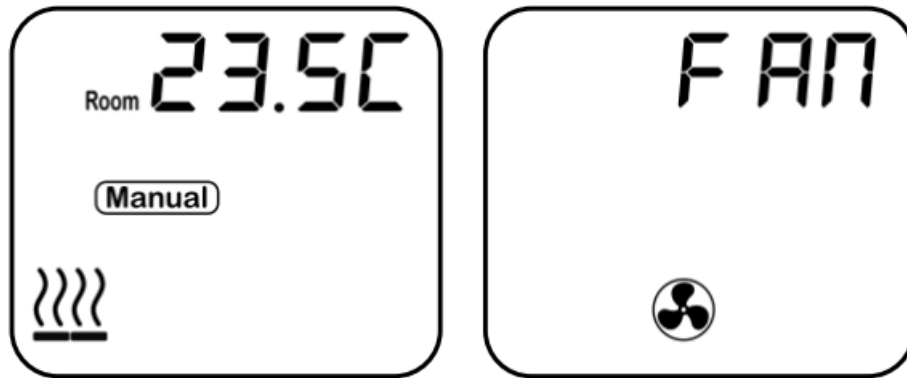


Manual temperature mode and fan only control

- In MANUAL mode, the heater maintains a chosen set temperature between 15°C and 35°C. To amend the set temperature when in MANUAL mode, activate the display and then press TEMP. Next, use the + and – buttons to change the temperature. Once the temperature is set, you can leave the display to return to the main screen

and the settings will be saved.

- When the room temperature reaches the set temperature, the heating is disabled. When the heating is disabled in manual mode, the fan only function can be used. Use the PROG button to toggle this on/off. The fan speed can be adjusted in the setup menu. This will only work on select heaters.



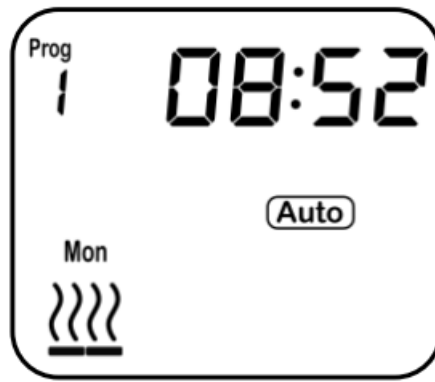
Frost protection mode

In FROST PROTECT mode, the heater maintains a chosen set temperature between 4°C and 15°C. To amend the set temperature when in FROST PROTECT mode, activate the display and then press TEMP. Next, use the + and – buttons to change the temperature. Once the temperature is set, you can leave the display to return to the main screen and the settings will be saved.



Auto mode

- In this mode, the HRXSL will follow the week's time / temperature program.
- The temperature can be temporarily overridden in AUTO mode by simply activating the display and using the + and – buttons to set the new temperature. The new set temperature will be then maintained until the next program step.
- Advance mode can be used to advance to the next program. To do this, press PROG whilst in AUTO mode. To clear advance mode, press PROG. The program currently active is indicated in the top left of the display.
- Information on how to set up the program schedule can be found on pages 5 & 6.



Manual control mode

- MANUAL control mode allows the heat and fan settings to be selected manually regardless of the room temperature. Refer to page 7 for information on how to access manual control mode.
- To operate manual control mode, activate the display and press the PROG button. The fan speed can now be set using the + and – buttons. Press the PROG button again. The heat setting can now be set using the + and – buttons.
- Manual control mode has 3 fan speeds and 3 heat settings available. Not all products have multiple fan and heat settings. Please refer to the heaters user manual to check how many heat/fan settings it has available.
- Refer to page 7 for information on how to access manual control mode.



Local temperature control mode

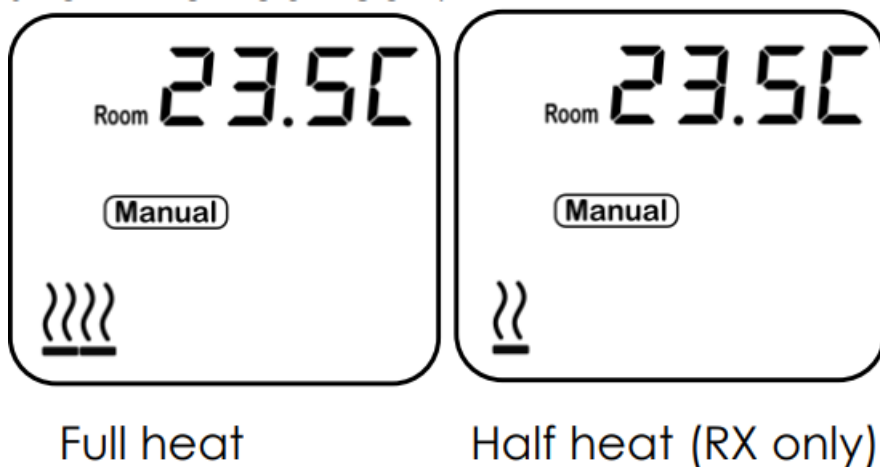
Local temperature control mode is only compatible with certain heaters. Unlike normal temperature control mode, the temperature measured on the controller does not affect the heater output. Instead, the HRXSL simply sends the target temperature to the heater. The heater uses this as the set temperature. It uses a local temperature sensor to measure the room temperature at the heater location itself. When the local temperature reaches the set temperature, the heater will switch off.

Refer to page 7 for information on how to access manual control mode.




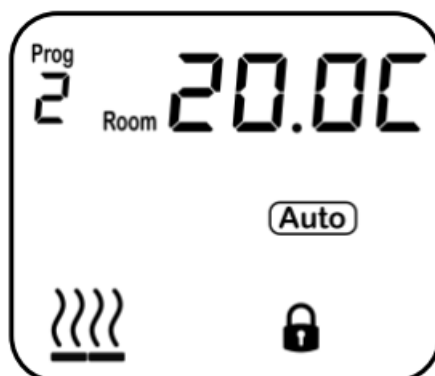
Heat symbol

Every time there is a demand for heat, the display will show the heat icon.



Keys locking

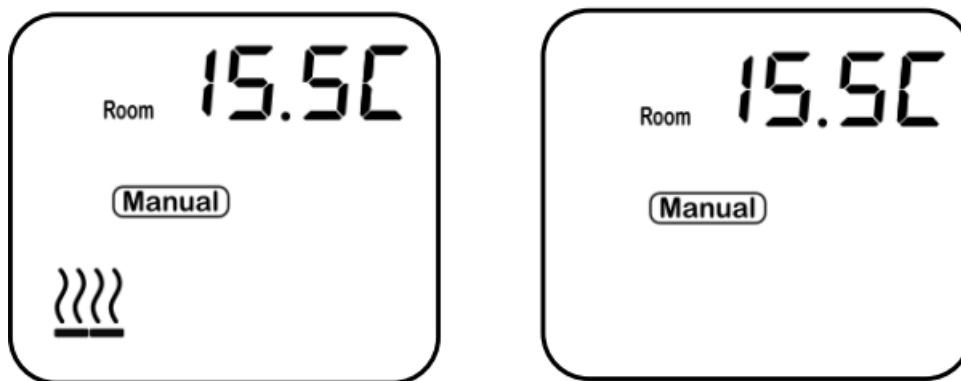
Press and hold TIME and TEMP together for 5 seconds. The display will show the  symbol. Repeat the step to unlock.



Open Window Detection

Ensuring you don't waste energy on heating the outside world, the heater is equipped with optional open / closed window detection. The heater recognises sudden drops in temperature when a window or a door is opened and turns the heating off to save energy. When the window is closed, the heater will automatically detect a temperature rise, and switch itself back on. Once enabled in the set-up menu, the open window detection is fully

automatic and does not require any human intervention to be activated. When open window detection has been triggered, the heat symbol will flash on/off as shown below.

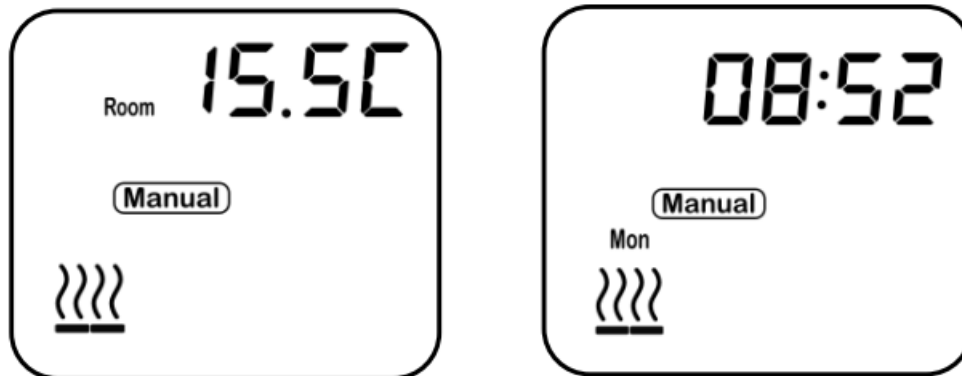


Setting-up Open Window Detection

The system has been factory set to default time and temperature values. If necessary, all values can be adjusted. When the heating is on, open window detection sensor will automatically switch the heater off when it detects a fall in temperature of 2°C in less than 10 minutes (this temperature can be changed in menu 8 and time in menu 7). If a temperature rise of 2°C in less than 30 seconds is detected, the heater will switch itself back on (this temperature can be changed in menu A and time in menu 9).

Displaying the time/temperature

- The HRXSL can display either the time & day or the room temperature when in one of the 4 standard operating modes.
- Press the TIME button to alternate between the two options.



Setting the time and day

To set the time and day, follow the steps below;

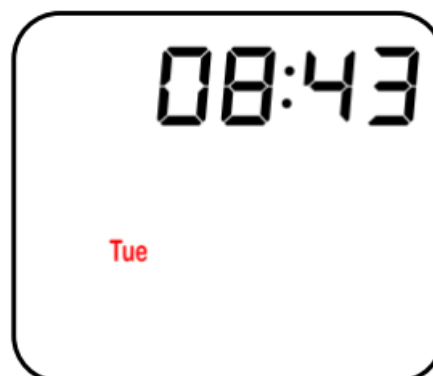
- **Step 1:** Press and hold the TIME button for 5 seconds. The minutes will flash. Use the + and – buttons to adjust the minutes.



- **Step 2:** Press the TIME button. The hours will flash. Use the + and – but-tons to adjust the hours.

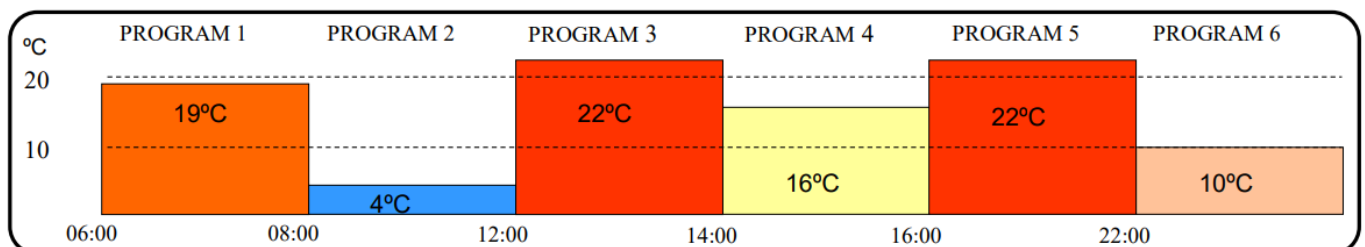


- **Step 3:** Press the TIME button. The day will flash. Use the + and – but-tons to change the day. Once set, press the TIME button to return to the main screen.

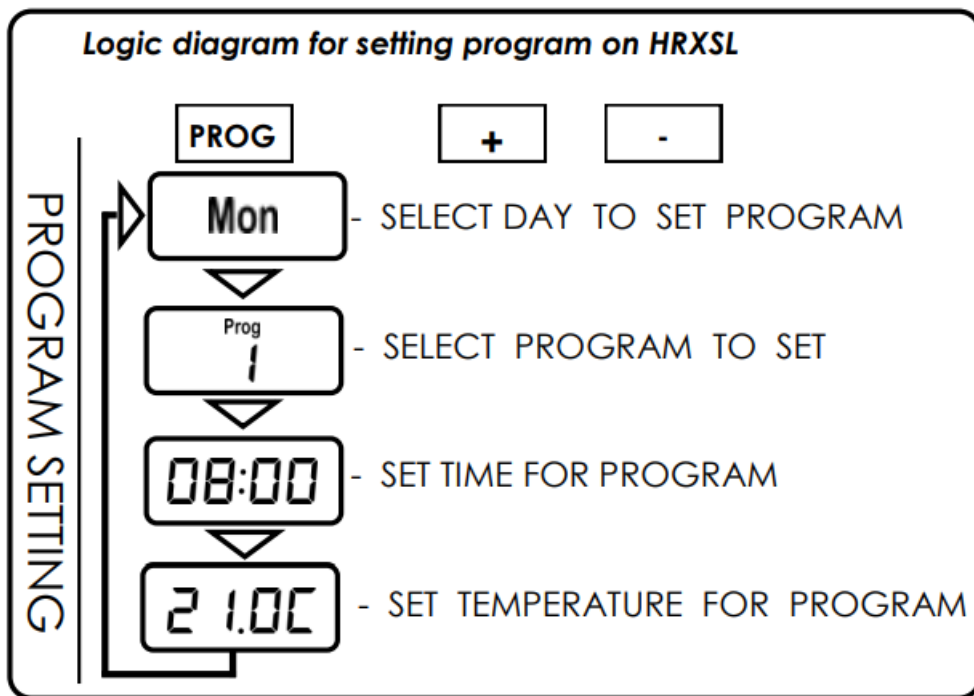


Setting the automatic program schedule

An example of one day program on HRXSL



Logic diagram for setting program on HRXSL



- This section provides an example of how to set the 7-day program for one day. The example will program the timer to maintain 21°C from 08:00 until 16:00. It will maintain 4°C from 16:00 onwards. It does this by setting the programs as follows;
 - **Prog 1** – Set to 08:00 and 21°C
 - **Prog 2** – Set to 16:00 and 4°C
 - **Prog 3, 4, 5, 6** – Set to inactive
- The steps to program this are shown below;
 - **Step 1:** Press and hold the PROG button. The display below should show with Monday flashing
 - **Step 2:** Press the PROG button. Prog 1 in the top left of the display should flash. This represents the program number. Each day has 6 programs.



- **Step 3:** Press the PROG button. The time should flash. Use the + and – buttons to set the time you want

the heating to switch on.



- **Step 4:** Press the PROG button. The temperature should flash. Use the + and – buttons to set the temperature you want to maintain.
- **Step 5:** Press the PROG button. Mon-day should flash again.



- **Step 6:** Press the PROG button. Prog 1 in the top left of the display should flash. Use the + button to increment this to Prog 2.
Note: you can cycle between the different programs using the + and – buttons
- **Step 7:** Press the PROG button. The time should flash. Use the + and – buttons to select the time you want the heating to switch off.



- **Step 8:** Press the PROG button. The temperature should flash. Use the + and – buttons to select a frost protection temperature.
- **Step 9:** Repeat these steps for pro-grams 3-6 if additional time periods are required. Any programs not being utilized must be deactivated. To do this, simply select the program in question as per step 6 and press the TIME button. The time should change to dashes as shown below. To reactivate the program, simply press the TIME button again.



Automatic program overview

The HRXSL has a 7-day, 5-day 2-day and a 24 hour timer available. This can be chosen in the setup menu. Up to 6 programming steps are available for each day. In the programming you can set a start time and a temperature for each program.

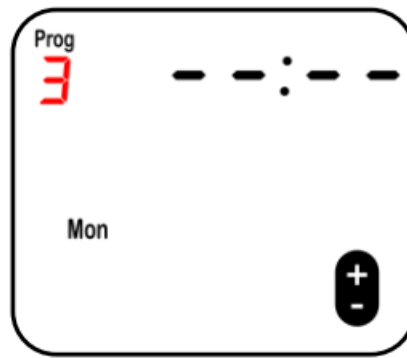
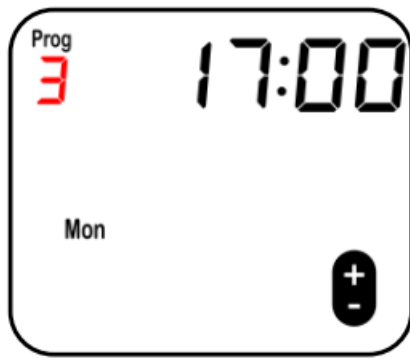
Basic operation

1. Press and hold PROG for 5 seconds to enter the program setting.
2. The day will be flashing. Use + and – to navigate day, press PROG to select day.
3. PROG 1 will be flashing. Use + and – to navigate program, use PROG to select program.
4. The time will be flashing. To set time, use + and – , press PROG to set the time.
5. The temperature will be flashing. To set temperature, use + and – to change temperature, press PROG to set temperature.

To add another program repeat steps 2-10.

Set program inactive

If you do not require the use of all 6 programs they can be deactivated. When in programming mode select the program you want to make inactive and press the TIME button. To activate the program again, press the TIME button.

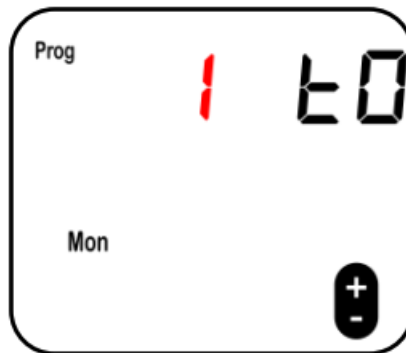
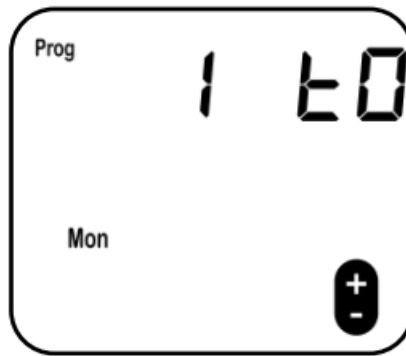


Copy day function

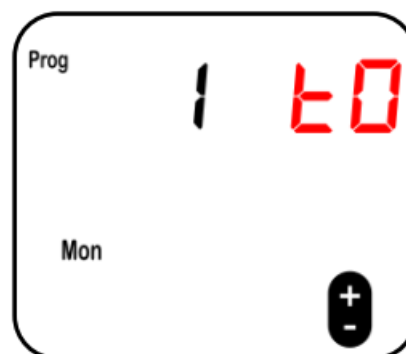
- If you require the same set of programs throughout the week, a 24 hour timer is available. This will use the same program every day. A 5-day + 2-day timer is also available. This will use the same programs Monday-Friday, and the same programs Saturday and Sunday. These modes are enabled in the setup menu, as explained on page 7.
- Alternatively, it is possible to copy a program from one day to another.
- To do this, follow the steps below;
 - **Step 1:** Press and hold PROG for 5 seconds to enter the program setting.



- **Step 2:** Press and hold TIME for 5 seconds to enter the copy day setting.
- **Step 3:** Use the PROG button to select the day to copy the programs from. 1= Monday, 2 = Tuesday and so on.



- **Step 4:** Use the + and – buttons to select the day to copy the programs to.
- **Step 5:** Press the TIME button to copy the programs. The 'TO' will flash to confirm the programs have been copied.



Setup menu

1. Press and hold TEMP and MODE together for 5 seconds.
2. The display will enter the setup menu.
3. Use + and – to change a value.
4. Use TIME to scroll between the settings.

5. Use PROG to exit the setup menu

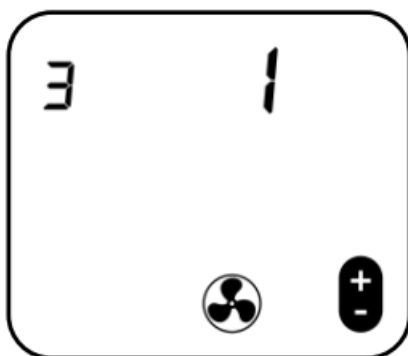
- **1 – temperature calibration**

The temperature reading is factory calibrated but if for any reason it needs adjusting (better accuracy required, to suit different position in the room etc.), the reading can be recalibrated in 0.5 degree steps.



- **3 – Adjust fan speed**

(Select models only. Does not apply in manual control mode)



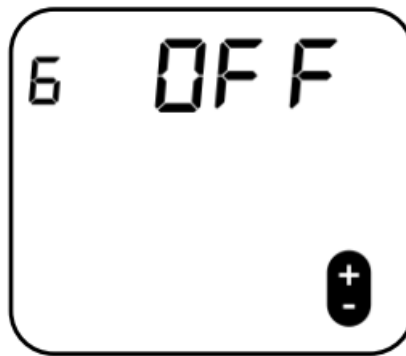
- **4 – Set minimum temperature**



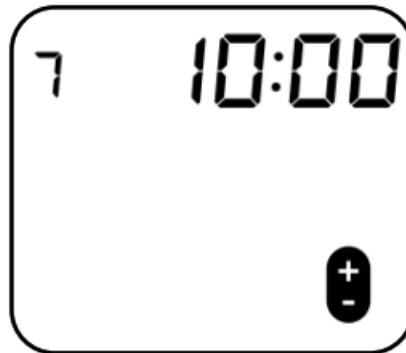
- **5 – Set maximum temperature**



- **6 – Enable/disable open window detection**



- 7 – Open window detection time



- 8 – Temperature drop in open window detection time



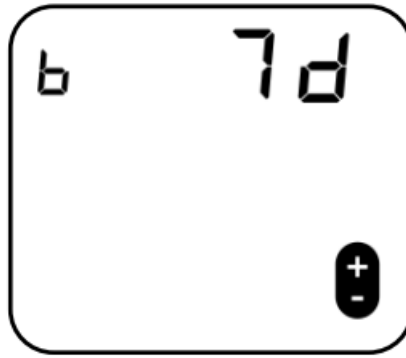
- 9 – Closed window detection time



- A – Temperature rise in closed window detection time

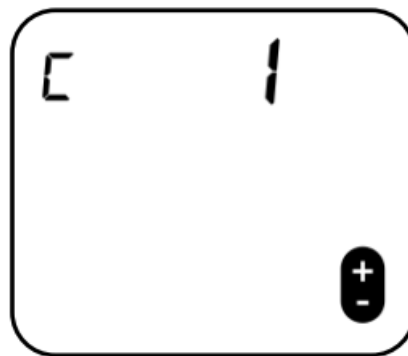


- B – Program mode select. Choose between a 7-day, 5-day 2-day or a 24 hour timer.

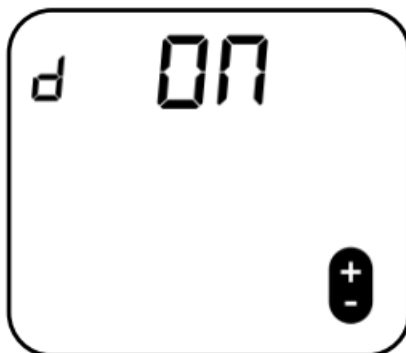


• **C – Select operating mode:**

- 1 = temperature control
- 2 = manual control
- 3 = local temperature control
(Specific heaters only)

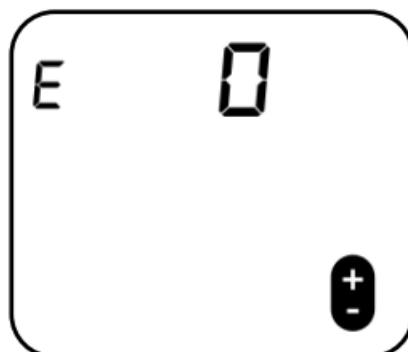


• **D – Enable/disable SL wireless signal**



• **E – Compatibility modes:**

- 0 = Normal operation,
- 1 = For use with RXREC
- 2 = For use with RX heaters from revision 01 to 09

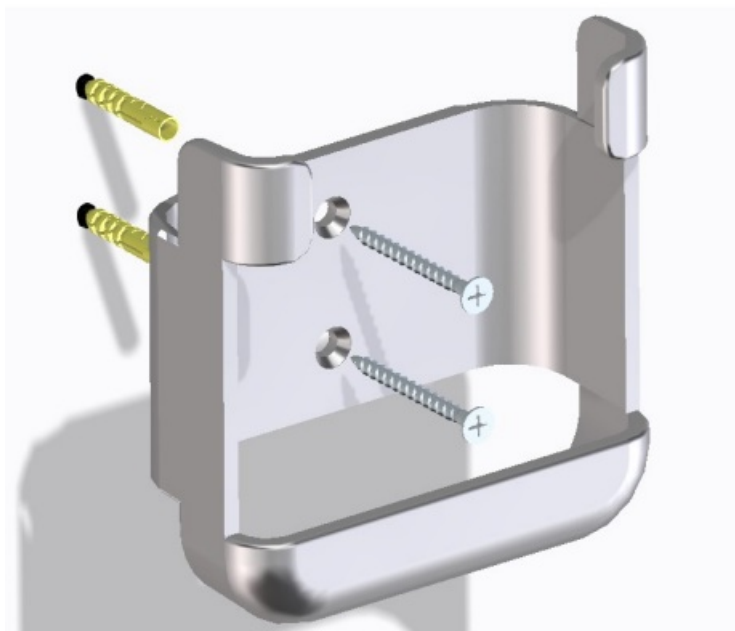


Choosing a position in a room

- When using the HRXSL for temperature control, a suitable position in the room should be chosen. Avoid areas with draught or direct sun. Do not position HRXSL above or close to the heaters or other heat sources.
- Damp areas or areas where HRXSL can be mechanically damaged should also be avoided.

Mounting the controller

- The controller can be left free-standing or mounted to the wall in a suitable location.
- To mount the controller to the wall, the supplied wall bracket should be used. Install the bracket using the 2 screw holes provided as shown in the image below.
- The bracket acts as a holder for the controller. The controller can be removed from the bracket easily to operate as a handheld device. Alternatively, a locking screw can be attached from the bottom of the device to permanently fix the controller to the bracket.



Batteries

- The HRXSL is battery powered. Remove the battery cover and insert 2 new high quality alkaline AA batteries.
Warning: Consort is not responsible for damage due to corrosion. Battery leakage will cause permanent damage.
 - To help avoid battery leak:
 - Replace the batteries annually, even if there is not a low battery warning. Remove failing or flat batteries immediately.
 - Always fit new high quality alkaline batteries from the same pack. Never mix new and old batteries, or batteries of different brands or types.
 - Never attempt to revive alkaline batteries by heating, crushing or recharging.
- Note:** The clock has to be reset after replacing the batteries. The program settings will be remembered

Declaration Of Conformity

In accordance with UK Government Guidance.

WE HEREBY CERTIFY THAT THE APPLIANCES DETAILED HEREON HAVE BEEN INSPECTED AND TESTED, AND CONFORM TO THE REQUIREMENTS OF THE FOLLOWING UK STATUTORY INSTRUMENTS WHERE


APPLICABLE:

- Electrical Equipment (Safety) Regulations 2016 SI. 2016 1101
- Electromagnetic Compatibility Regulations 2016 SI. 2016 No. 1091
- Radio Equipment Regulations 2017 SI. 2017 No. 1206
- The Ecodesign for Energy Related Products and Energy Information (Amendment) (EU Exit) Regulations 2019. SI. 2010 2617
- The Restriction of use of Certain Hazardous Substances. SI. 2012 No. 3032
- The Waste Electrical and Electronic Equipment Regulations 2013. SI. 2013 No. 3113
- Transposed standards used:
 - BSEN55014 (2006)
 - BSEN301 489.1 & .3
 - BSEN300 220.1 & .2
 - BSEN60 730.2.9
 - BSEN 60335.1 (2012)
 - BS EN 60335.2.30 (2009)
 - PART NUMBER AND DESCRIPTION OF APPLIANCE:
 - **NAME OF RESPONSIBLE** LEE GRIFFITHS
 - **PERSON: POSITION:** PRODUCTION AND QUALITY MANAGER
 - **DATE:** 24/04/23

ABOUT COMPANY

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 - **FAX:** +44 1646 695195.
 - **E-MAIL:** ENQUIRIES@CONSORTEPL.COM
 - WWW.CONSORTEPL.COM
-

Documents / Resources

 <p>Installation & Control Guide for HRXSL Handheld Controller</p>	<p>CONSORT HRXSL Handheld Controller [pdf] Installation Guide HRXSL, HRXSL Handheld Controller, Handheld Controller, Controller</p>
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References

-  [Consort Claudgen - Electric Heating Solutions](#)
- [User Manual](#)

Manuals+.