

ESRTP5




Programmable Room Thermostat
with TPI, Delayed Start & Landlord Service



User and Installation Instructions

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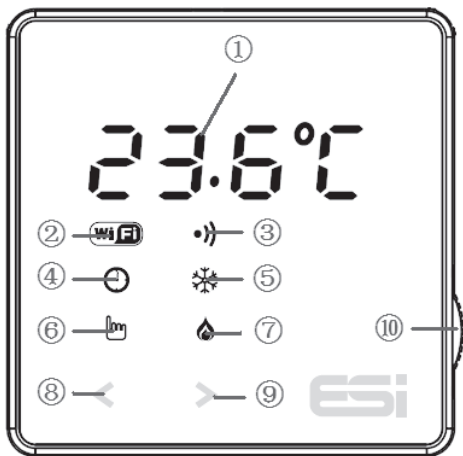
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User Instructions

N.B Please note, when first powered or in the event of a power loss the time will be flashing and the time and date will need to be set. Use the dial to adjust the hour then press >. Repeat this to set the minute, day date and month date. Next set the year by using the dial to adjust the first digit then press > and repeat for all 4 digits. It is recommended to leave the thermostat to climatise for 40 minutes before user operation.

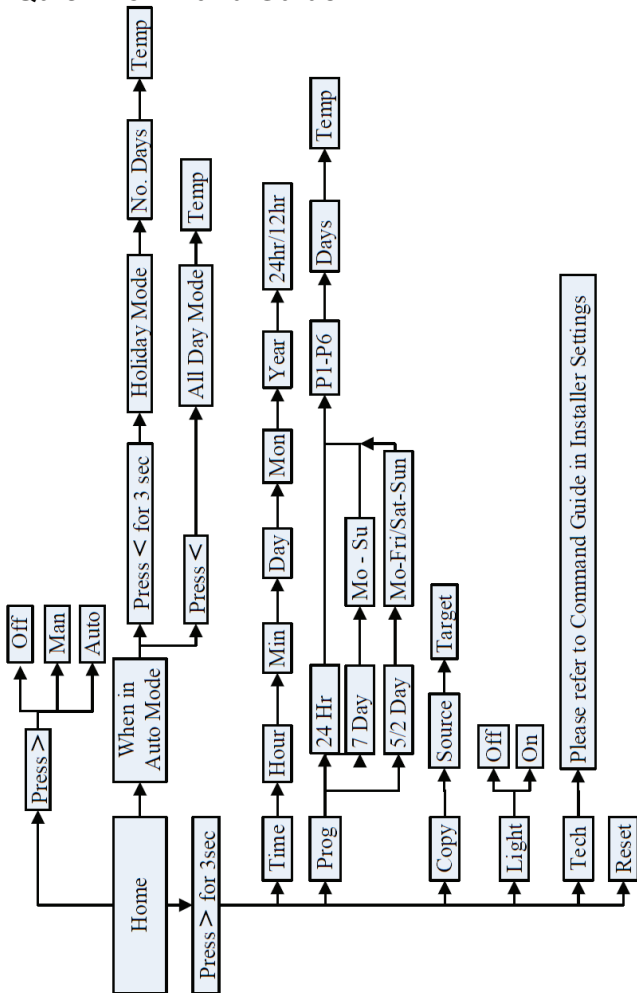
1. Quick Operating Guides

1.1 Display and Button Functions



- ① 23.6°C : Temperature, time and data display
- ②  : WiFi working status (for ES RTP5WIFI WiFi model only)
- ③  : RF working status (for ES RTP5RF RF model only)
- ④  : Auto operation mode
- ⑤  : Off / Frost protection mode
- ⑥  : Manual operation mode
- ⑦  : Flame symbol when system calling for heat
- ⑧  : Cancels and returns to the previous menu
- ⑨  : Either confirms and saves the setting, or moves you to next option within a function
- ⑩  Dial to adjust temperature and parameters

1.2 Quick Command Guide



2. Setting the Time and Date (tINE)

N.B Please note, when first powered or in the event of a power loss the time will be flashing and the time and date will need to be set. Follow steps 2 - 6 to set the time on first setup. Changes between summer and winter time are handled automatically by the unit.

1. Press and hold > until the display shows **tINE** then press >.
2. Turn the dial to adjust the hour then press >.
3. Turn the dial to adjust the minute then press >.
4. Turn the dial to adjust to the current day then press >.
5. Turn the dial to adjust to the current month then press >.
6. Turn the dial to adjust to the current year then press >.
7. Turn the dial to select between 12 or 24 hour format. Press > to confirm and return to step 2. Press < to return to previous menu or leave for 1 minute to automatically return to home-screen.

3. Operation Modes

Operation Modes: ☺ AUTO, 🖱️ MAN, ❄️ OFF

Press > in homescreen to choose operation mode.

3.1.1. AUTO ☺

- In Auto mode, choose All Day mode. **See section 3.2** for details.
- In Auto mode, choose Holiday mode. **See section 3.3** for details.
- In Auto mode, if All Day mode or Holiday mode is not selected, Auto mode will be used. In Auto mode, the thermostat will work as per the user's previous programming setting. Please **see section 5** for details.

Temporary manual override of set temperature. In Auto mode, the user can turn the dial to adjust the set temperature as below:-


1. In homescreen, turn dial to temporarily adjust temperature
2. Press > to confirm and return to homescreen. The display will alternate between current room temperature and the time left until the next programmed event. The temporary override will end when the next programmed event starts.

Temporary set temperature range: 5°C - 35°C. Default: 21°C

N.B: The temporary set temperature will not replace the original program event's set temperature. When the program event ends, it will return to the default heating program automatically.

3.1.2. MAN

Permanent manual override of set temperature.

1. In Homescreen, press > to select MAN 
2. Turn the dial to adjust temperature
3. Press > to confirm setting and return to homescreen

Permanent set temperature range: 5°C - 35°C. Default: 21°C


3.1.3. OFF

Turn the heating off permanently.

1. In Homescreen, press > to select OFF 

When room temperature drops to 5°C, heating is turned on; when room temperature reaches 7°C, heating is turned off.

3.2 All Day Mode (AL)

1. In homescreen, press > to select Auto mode 
2. Press < once to enter All Day mode temperature setting and the screen will display **AL**
3. Turn the dial to adjust the set temperature
4. Press > to confirm the set temperature and automatically return to the Homescreen. The display will alternate between **AL** and current room temperature


To adjust the temperature in All Day mode, turn the dial to desired temperature then press > to confirm and automatically return to the homescreen.

Press < in the homescreen to exit All Day mode and return to Auto mode.

Heating under All Day mode will be on until 23:59 that day. At 23:59, the unit will exit All Day mode and return to Auto mode.

Set temperature range: 5°C - 35°C. Default: 21°C

3.3. Holiday Mode (HOLI)

1. In homescreen, press > to select Auto mode 
2. Press and hold < for 3 seconds until **HOLI** is displayed then release
3. Turn the dial to adjust holiday days, press > to confirm
4. Turn the dial to adjust set temperature, press > to confirm and return to the homescreen. The display will alternate between:
HOLI - Days(Holiday) - **HOLI** - Current room temperature

To adjust the settings in Holiday mode, turn the dial to adjust holiday days, press > to confirm. Then turn the dial to adjust set temperature, press > to confirm and return to the homescreen.

Press < in the homescreen to exit Holiday mode and return to Auto mode.

Holiday mode days setting range: 1 - 99 days. Default: 1 day

Set temperature range: 5°C - 35°C. Default: 7°C

N.B: The Days(Holiday) will numerically countdown. Once the countdown has finished normal operation will resume. It may be advisable to set the Holiday mode 1 day less so the house is back up to temperature for your return.

4. Main Menu

In the homescreen, press and hold **>** for 3 seconds then release to enter main menu. Use the dial to choose between **tINE**, **ProG**, **CoPy**, **tEcH** and **rESE**. Press **>** to enter desired setting. Press **<** to return to Homescreen.

4.1. Copy Function (CoPy)

The unit is provided with a copy function which allows an adjusted programme to be copied to another day. **N.B.** This function only works in 7 Day setting.

To operate the copy function:-

1. Press and hold **>** until the display shows **tINE**. Turn the dial until display shows **CoPy** then press **>**
2. Use the dial to select the day to be copied then press **>** to confirm
3. Use the dial to select the day to be copied to then press **>**. The display will show **SAuE** to confirm and then return to step 2. Press **<** to return to previous menu or leave for 1 minute to automatically return to homescreen

4.2. Backlight On/Off (LIGH)

The backlight can be turned permanently on/off.

1. Press and hold **>** until the display shows **tINE**. Turn the dial until display shows **LIGH** then press **>**
2. Use the dial to choose between turning the light permanently ON or OFF. When OFF, the LED will display only with user interaction and turn off again when there is no operation for 2 minutes. Press **>** to confirm and return to previous menu

LIGH setting range: Off/On. Default: Off

N.B. It is recommended to leave this setting in the default OFF mode as heat generated by the thermostat's power supply and LED will affect temperature measurement. A deviation of up to 3.5°C may occur, which will be calibrated automatically by the unit within 30 minutes of first connecting the thermostat. It is recommended to leave the thermostat to climatise for 40 minutes before user operation. If set permanently ON, the light will automatically switch to a lower light setting and be dimmer.

4.3. Resetting the Unit (rESE)

Resetting the unit will return the thermostat to default setting. The time, date and landlord service settings will all be maintained.

1. Press and hold **>** until the display shows **tINE**. Turn the dial until display shows **rESE** then press **>**
2. The display will show - - - -. Press **>** again to confirm and the display will show **LOAd**. If the reset is successful, the unit will return to the homescreen after 2 seconds. If the reset is unsuccessful, the unit will display **FAIL**. Either press **>** to attempt again or press **<** to return to the previous menu

5. Programme Settings (ProG)

5.1. Factory Pre-Set Programme

This unit has been designed to be a simple to use thermostat, requiring minimal user intervention with a pre-programmed heating profile. The pre-set heating times and temperatures will suit most people (see table below).

Operation setting range: 5/2 day, 7 day, 24 Hour. Default: 5/2 Day

Events setting range: 6 events or 4 events. Default: 6 events

5.1.1. Pre-Set Temperatures: 5/2 Day

Mon-Fri pre-set time and temperature settings

6 Events	Time	Temp °C
1	6.30	20
2	8.30	16
3	12.00	16
4	14.00	16
5	16.30	21
6	22.30	7

4 Events	Time	Temp °C
1	6.30	20
2	12.00	16
3	14.00	16
4	16.30	21

Sat & Sun pre-set time and temperature settings

6 Events	Time	Temp °C
1	7.30	20
2	09.30	20
3	11.30	20
4	13.30	20
5	16.30	20
6	22.30	15

4 Events	Time	Temp °C
1	6.30	20
2	12.00	16
3	14.00	16
4	16.30	21

5.1.2. Pre-Set Temperatures: 7 Day

In 7 day setting, the pre-set settings are the same as the 5/2 Day programme.

5.1.3. Pre-Set Temperatures: 24 Hours

In 24hr setting, the pre-set settings are the same as Mon-Fri of the 5/2 Day programme.

5.2. Setting the Operation Mode (5/2 day, 7 day, 24hr) (ProG)

1. Press and hold **>** for 3 seconds until the display shows **tINE**.
Turn the dial until display shows **ProG** then press **>**
2. Use the dial to move between 24hr, 7 day or 5/2 day operation.
24 hr operation is shown by 24Hr
7 day operation is shown by 7day
5/2 day operation is shown by 5-2d
3. Press **>** to set the programme (**see section 5.3** for details) or press **<** to return to previous menu or leave for 1 minute to automatically return to homescreen

5.3. Setting the Programme (ProG)

5.3.1. 5/2 Day

1. Choose 5/2 day operation (see 5.2 for details). Then press **>**
2. Turn the dial to select the days to programme, either **1-5** for weekdays or **6-7** for weekends then press **>**
3. Turn the dial to choose the program (**P1-P6**). Then press **>** to enter time setting
4. Turn the dial to adjust the time (10 minutes increments). Then press **>** to enter temperature setting
5. Turn the dial to adjust temperature (increments of 0.5°C). Then press **>** to save and return to program choice (**P1-P6**)
6. Repeat steps 3-5 for all time and temperature programs. Then press **<** to return to step 2. Repeat steps 2-6 until all desired days have been programmed then press **<** to return to previous menu or leave for 1 minute to automatically return to home-screen

5.3.2. 7 Day

1. Choose 7 day operation (see 5.2 for details). Then press >
2. Turn the dial to select the day to programme (**Mon-Fri**) then press >
3. Turn the dial to choose the program (**P1-P6**). Then press > to enter time setting
4. Turn the dial to adjust the time (10 minutes increments). Then press > to enter temperature setting
5. Turn the dial to adjust temperature (increments of 0.5°C). Then press > to save and return to program choice (**P1-P6**)
6. Repeat steps 3-5 for all time and temperature programs. Then press < to return to step 2. Repeat steps 2-6 until all desired days have been programmed then press < to return to previous menu or leave for 1 minute to automatically return to home-screen

5.3.3. 24 Hour

1. Choose 24 hour operation (see 5.2 for details). Then press >
2. Turn the dial to choose the program (**P1-P6**). Then press > to enter time setting
3. Turn the dial to adjust the time (10 minutes increments). Then press > to enter temperature setting
4. Turn the dial to adjust temperature (increments of 0.5°C). Then press > to save and return to program choice (**P1-P6**)
5. Repeat steps 2-4 for all time and temperature programs. Then press < to return to previous menu or leave for 1 minute to automatically return to homescreen

Installation Instructions

6. Technical Specification

6.1 Parameter Settings

All Day Mode	
All day mode temperature	5°C-35°C (Default: 21°C)
Holiday Mode	
Holiday mode temperature	5°C-35°C (Default: 7°C)
Holiday mode days	1-99 days (Default: 1 day)
Default Mode	
Temporary set temperature	5°C-35°C (Default: 21°C)
Program event start time	00.00-24.00 (See 5.1 for details)
Program event set temperature	5°C-35°C (See 5.1 for details)
Program operation mode	5/2 day, 7 day, 24hr (Default 5/2 day)
Number of programs	4 or 6 (Default 6)
Manual Mode	
Manual mode temperature	5°C-35°C (Default: 21°C)
Delayed Start	
DS	Off or On (Default Off)
TPI	
TPI	Off, 3 cycles or 6 cycles (Default Off)
OFF Mode (Frost Protection)	
Frost protection start temperature	5°C
Frost protection exit temperature	7°C

Service	
SERS	OFF or 1-4 (Default: Off) (See 9.1 for details)
Service DATE	28-366 days (Default 365 days)
Other Functions	
Operation MODE	Auto, Manual, Off (Default: Auto)
Temperature calibration ADJ	-3.0°C-3.0°C (Default: 0°C)
SWING	0.5°C-2.0°C (Default: 1°C)
Display backlight	Off/On (Default: Off)

6.2 Thermostat Technical Settings

Power supply	230VAC, 3(1)A SPDT
Temperature Sensor Type	+/- 1°C at 20°C
Total Switch Rating	3(1)A 230 VAC
Contact Type	SPDT (Volt Free changeover contacts)
Plastic	Thermoplastic, flame retardant
Protection Rating	IP30
Dimensions	95mm (L) x 95mm (W) x 39mm (D)
BST/GMT Time Change	Automatic
Factory Pre-Set Programme	Yes, see 5.1 for details
Complies with	EN 60730-1, EN 60730-2.7, EN 55014-1:2006+A1:2009+A2:2011, EN 61000-3-2:2014, EN 61000-3-3:2013, EN 55014-2: 2015, EN 60730-1:2011, EMC Directive 2014/30/EU, LVD Directive 2014/35/EU

7. Installation

7.1.1. Installation Safety Instructions

The 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 instructions before proceeding.

Ensure that the fixed wiring connections to the mains supply is via a fuse rated at not more than 3 Amps and Class 'A' switch having a contact separation of a minimum of 3mm in all poles. The recommended cable sizes are 1.0mm sq or 1.5mm sq. No earth connection is required as the product is double insulated but ensure continuity of earth throughout the system.

7.1.2. General Safety Instructions

This product complies with the essential requirements of the following EC Directives:

- Electro-Magnetic Compatibility Directive 2014/30/EU
- Low Voltage Directive 2014/35/EU
- EC Marking Directive 2014/30/EU

Please leave the user instructions with the end user where they should be kept in a safe place for future reference.

7.1.3 Warning Notices

WARNING: ALWAYS ISOLATE THE AC MAINS SUPPLY BEFORE INSTALLING.

THIS PRODUCT MUST BE FITTED BY A COMPETENT PERSON, AND INSTALLATION MUST COMPLY WITH THE GUIDANCE PROVIDED IN THE CURRENT EDITIONS OF BS767 (IEE WIRING REGULATIONS) AND PART "P" OF THE BUILDING REGULATIONS.

WARNING: DO NOT FIT THE RECEIVER TO A BACK PLATE THAT IS LIVE.

SWITCH OFF MAINS BEFORE FITTING BACK PLATE AS LIVE AND NEUTRAL CONTACTS MAY TOUCH WHILE MOUNTING RECEIVER ON PLATE AND DAMAGE THE PRODUCT.

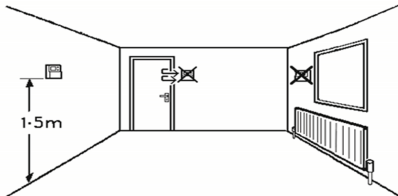
7.1.4 Maintenance

Always isolate the mains supply before commencing any work, servicing or maintenance on the system. And please read all instructions before proceeding.

Arrange for an annual maintenance and inspection schedule to be carried out by a qualified person on every part of the heating and hot water system.

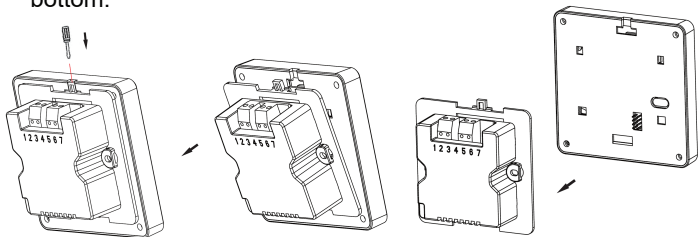
7.2.1 Fitting the Programmable Room Thermostat

The ideal position to locate the Programmable Room Thermostat is about 1.5m above floor level, in a location where the thermostat is accessible, reasonably lit and free from extremes of temperature and draughts. Do not position the thermostat near sources of heat, such as radiators, lights, TV, direct sunlight or on an outside wall.

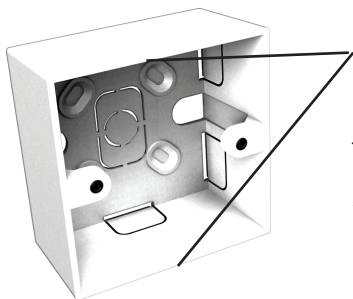
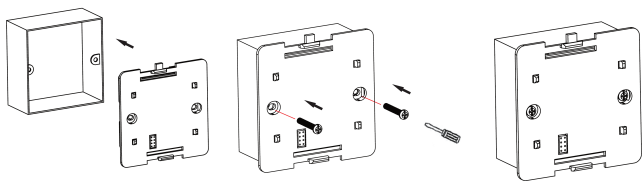


7.2.2 Installing the Programmable Room Thermostat

1. Use a flat headed screwdriver to press the fastener at the top of the unit, then gently loosen from the unit, unhooking from top to bottom.



2. Fix the 35mm back box, terminals at the top, onto a 2 flange metal back box with 2 BM3.5x23 screws. If installing on a 4 flange metal back box, simply push down the flanges on the top and bottom to leave the flanges on the left and right hand side.

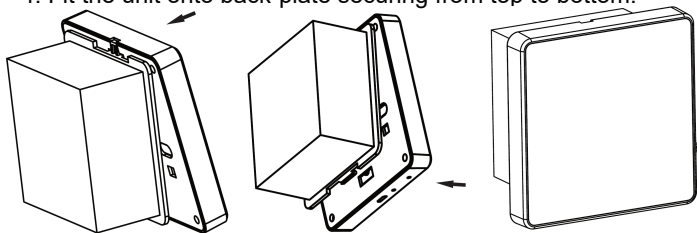


If there are 4 flanges, push down the top and bottom flanges to leave just 1 on either side.

Use a 35mm back box with 2 screw flanges.

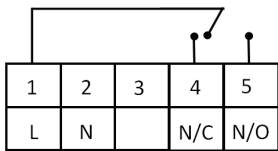
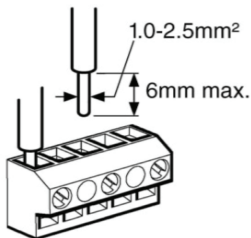
3. Route the wires through the back of the wall plate. Fit the wires to the wall-plate in accordance with the relevant diagram and in accordance with I.E.E. regulations.

4. Fit the unit onto back-plate securing from top to bottom.



5. Ensure an appropriate fuse is fitted to the circuit before reconnecting to the mains supply.

7.2.3 Wiring Diagram



N.B Shown in OFF position

Heating

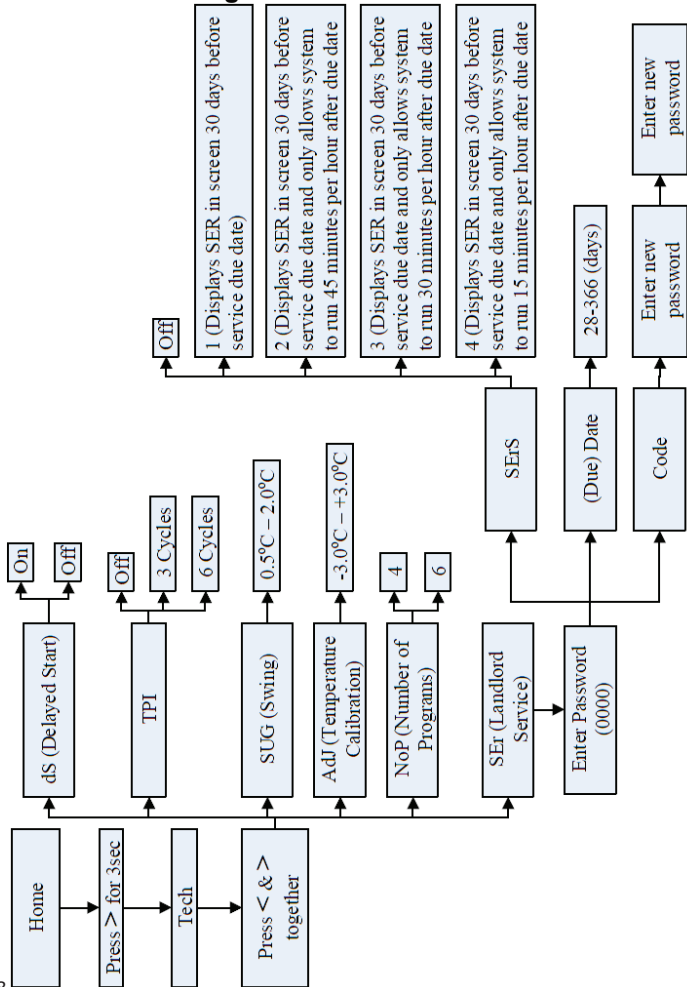
1 L : Live

2 N : Neutral

4 NC : Normally Closed

5 NO : Normally Open

8. Technical Settings: 8.1.Quick Command Guide



8.2 Menu Technical Settings (tEch)

1. Press and hold **>** until the display shows **tINE**. Turn the dial until display shows **tEch** then press **< & >** together to enter
2. Use the dial to choose between the below, then press **>** to enter:-

dS: Delayed Start. Default is OFF. Use the dial to choose between OFF (function disabled) or ON (heating on time is delayed up to 40 minutes according to current room temperature)

tPI: TPI. Default is OFF. Use the dial to choose between OFF (function disabled), 3CYC (each hour has 3 heating cycles, recommended for oil boilers) or 6CYC (each hour has 6 heating cycles, recommended for gas boilers)

SUG: Swing. Default is 1.0. Use the dial to choose between 0.5-2.0

AdJ: Temperature calibration. Default is 0. Use the dial to choose between -3.0°C - 3.0°C

noP: Number of time and temperature events. Default is 6. Use the dial to choose between 4 or 6 time and temperature events.

SER: Landlord Service Interval. Default is OFF. **See section 9** to amend

9. Landlord Service (SEr)

9.1 Setting the Landlord Service (SErS)

1. To set the landlord service, enter the landlord service settings (see section 8.2). Use the dial to select **SErS** then press >
2. Use the dial to enter the password 0000, using > to move to the next digit. Then press > to enter technical settings.
3. Use the dial to choose between the below options, then press > to confirm and return to landlord service settings

OFF: Disables the service interval

1: Reminds the user when the annual service is due by displaying **SEr** in the screen 30 days before due date. The operation of the system will not be affected.

2: Reminds the user when the annual service is due by displaying **SEr** in the screen 30 days before due date and only allows the system to run for 45 minutes per hour after the due date has passed

3: Reminds the user when the annual service is due by displaying **SEr** in the screen 30 days before due date and only allows the system to run for 30 minutes per hour after the due date has passed

4: Reminds the user when the annual service is due by displaying **SEr** in the screen 30 days before due date and only allows the system to run for 15 minutes per hour after the due date has passed

9.2 Setting the Due Date (DAte)

To set the due date, enter the landlord service settings (**see section 9.1**) and use the dial to select **DAte** then press **>**. Use the dial to set the due date (between 28-366 days) then press **>** to confirm and return to landlord service settings.

9.3 Changing the Password (CODE)

To change the password, enter the landlord service settings (**see section 9.1**) and use the dial to select **CODE** then press **>**. Use the dial to set the first digit of the new password then press **>** to move to the next digit. Repeat this for all 4 digits. On the last digit, press **>** to confirm the new password. Then re-enter the chosen password using the dial and **>** button. On the last digit press **>** to confirm.

If both inputted passwords match, the new password will be saved and the unit will return to the homescreen. If the inputted passwords do not match, the unit will return to the landlord settings menu and this step (**section 9.3**) should be repeated.

WARNING: Interference with sealed parts renders the guarantee void.

In the interests of continuous product improvement we reserve the right to alter designs, specifications and materials without prior notice and cannot accept liability for errors.

