ESRTP5WIFI

5 Series WiFi Programmable Room Thermostat

Installation Instructions

Thank you for choosing ESi Controls.

All our products are tested in the UK so we are confident this product will reach you in perfect condition and give you many years of service. However, for additional peace of mind, we recommend you register your product online at **www.esicontrols.co.uk/warranty** for your extended warranty.

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1. Technical Specification

1.1 **Parameter Settings**

All Day Mode	
All ay 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 section 5.1 for details)*
Program event set temperature	5˚C-35˚C *(See section 5.1 for details)*
Program operation mode	5/2 day, 7 day, 24hr (Default: 5/2 day)
Number of programs	4 or 6 (Default: 4)
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 section 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˚C (Default: 0˚C)
SWING	0.5˚C-2.0˚C (Default: 0.5˚C)
Display backlight	Off/On (Default: Off)

1.2 **Thermostat Technical Settings**

Power supply	230VAC, 3(1)A SPDT
Temperature sensor type	+/- 1°C at 20°C
Total switch rating	3(1)A 230VAC
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 section 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

2. Installation

2.1.1 **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 sqr or 1.5mm sqr. No earth connection is required as the product is double insulated but ensure continuity of earth throughout the system.

2.1.2 **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.

2.1.3 **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.*

2.1.4 **Maintenance**
Always isolate the mains supply before commencing any work, servicing or maintenance on the system. 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.

2.2.1 **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.
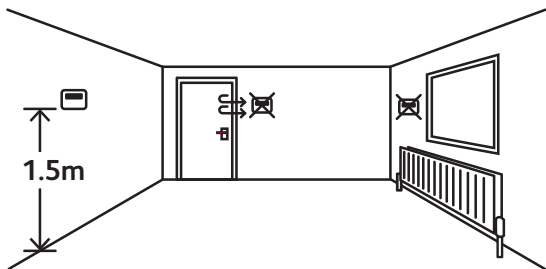
2.2.2 Installing the Programmable Room Thermostat

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.
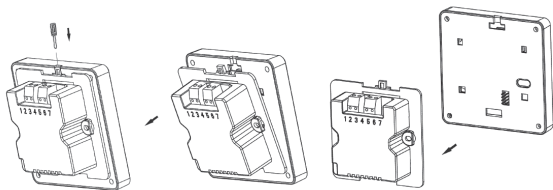
2. Fix the 35mm back box, terminals at the top, onto a 2 flange metal back box with 2 BM3.5x23 screws. If installing on a 4 flange metal back box, simply push down the flanges on the top and bottom to leave the flanges on the left and right hand side.
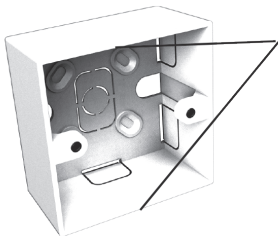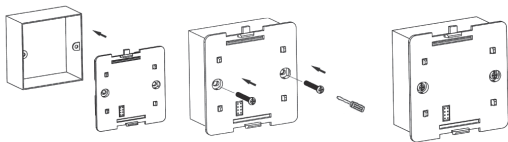
If there are 4 flanges, push down the top and bottom flanges to leave just 1 on either side.

Use a 35mm back box with 2 screw flanges.

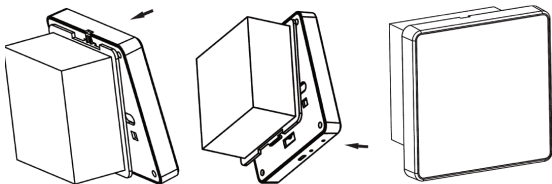3. Route the wires through the back of the wall plate. Fit the wires to the wall-plate in accordance with the relevant diagram and in accordance with I.E.E. regulations.

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

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

2.2.3 **Wiring Diagram**

1.0-2.5mm^2

6mm MAX

1	2	3	4	5
L	N		N/C	N/O
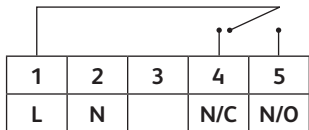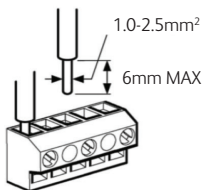
Cooling Heating

1 L : Live

2 N : Neutral

4 NC (Cooling): Normally Closed

5 NO (Heating): Normally Open

N.B. *Shown in OFF position*

3. Technical settings

3.1 Quick command guide

```
HOME
  │
Press > for 3 sec
  │
 Tech
  │
Press < & >
together
  │
  ├── dS (Delayed start) ──┬── On
  │                        └── Off
  │
  ├── TPI ──┬── Off
  │         ├── 3 cycles
  │         └── 6 cycles
  │
  ├── SUG (Swing) ── 0.5°C–+2.0°C
  │
  ├── AdJ (Temperature calibration) ── -3.0°C–+3.0°C
  │
  ├── NoP (Number of programs) ──┬── 4
  │                              └── 6
  │
  ├── SEr (Landlord service) ── SErS ──┬── Off
  │                                    ├── 1 (Displays SER in screen 30 days before service due date)
  │                                    ├── 2 (Displays SER in screen 30 days before service due date and only allows system to run 45 minutes per hour after due date)
  │                                    ├── 3 (Displays SER in screen 30 days before service due date and only allows system to run 30 minutes per hour after due date)
  │                                    └── 4 (Displays SER in screen 30 days before service due date and only allows system to run 15 minutes per hour after due date)
  │
  ├── Enter Password (0000) ── Due (Date) ── 28-366 (days)
  │
  └── uErs ── Code ── Enter new password ── Enter new password
```
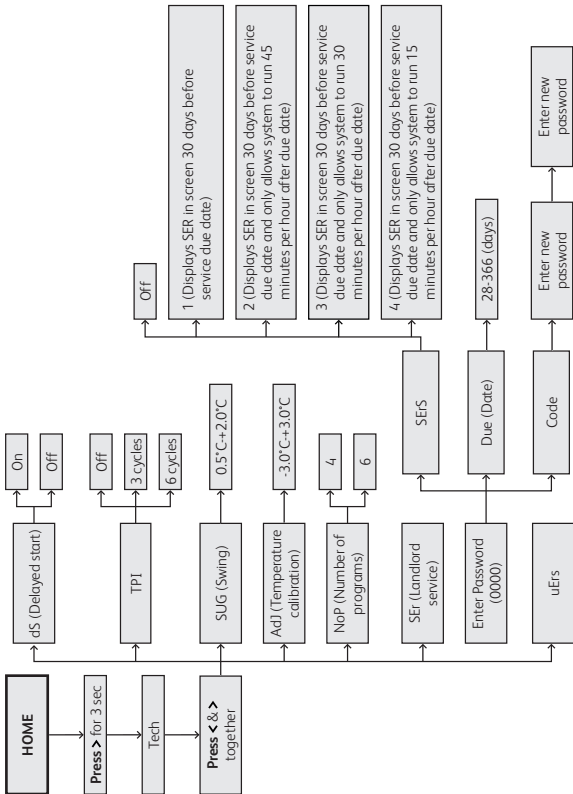
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3.2 Menu Technical Settings (tEcH)

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 4. 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.

   uErs: Current Software Version. push >uErs to see latest software version and push > to update software if notification has been sent

4. Landlord settings (SEr)

4.1 **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.

4.2 **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.

4.3 **Changing the Password (CODE)**
To change the password, enter the landlord service settings *(See section 4.1)* 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 *(See section 4.3)* 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.

We are continuously developing our products to bring you the very latest in energy saving technology and simplicity. However, should you have any questions setting up your controls please email us at **sales@esicontrols.co.uk** or for technical queries call us on our dedicated technical helpline **07539 117468.**

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