

ESRTP5WF

# 5 Series WiFi Programmable Room Thermostat

## Installation Instructions

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## Thank you for choosing ESi Controls.

To take advantage of our 3 year extended warranty, you must register your product within **30 days** of purchase via [www.esicontrols.co.uk](http://www.esicontrols.co.uk)

Products which have **not** been registered within **30 days** of purchase will only qualify for 1 year warranty. 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.

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# Technical Specification

## Parameter Settings

<b>All Day Mode</b>	
All Day Mode Temperature	5°C - 35°C (Default 21°C)
<b>Holiday Mode</b>	
Holiday Mode Temperature	5°C - 35°C (Default 7°C)
Holiday Mode Days	1-99 days (Default 1 day)
<b>Default Mode</b>	
Temporary Set Mode	5°C - 35°C (Default 21°C)
Program Events Start Time	00.00-23.59 (See section 5.1 of user instructions)
Program Events Set Temperature	5°C - 35°C (See section 5.1 of user instructions)
Program Operation Mode	5/2 day, 7 day, 24hr (Default 5/2 day)
Number of Programs	4 or 6 (Default 4)
<b>Manual Mode</b>	
Manual Mode Temperature	5°C - 35°C (Default 21°C)
<b>Delayed Start</b>	
DS	Off or On (Default Off)
<b>Optimisation</b>	
Optimum Start	Off or On (Default Off)
Optimum Stop	Off or On (Default Off)
<b>TPI</b>	
TPI	On/Off Chrono-proportional, 3 or 6 cycles per hour
<b>OFF Mode (Frost Protection)</b>	
Frost Protection Start Temperature	5°C
Frost Protection Exit Temperature	7°C
<b>Landlord Service Interval</b>	
Installer Selectable Service Interval Timer	Off or 1-4 (default Off)
Service Due Date	28 to 365 days from current date (Default 365 days)
<b>Other Functions</b>	
Operation Mode	Auto, Manual, OFF (Default Off)
Temperature Calibration	-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)

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## 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
Plastic Type	Thermoplastic, flame retardant
Protection Rating	IP30
Dimensions	95mm (L) x 95mm (W) x 39mm (D)
BST/GMT Time Change Over	Automatic
Factory Pre-set Program	yes, (See section 5 of user instructions)
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

## 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.

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# Installation

## 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.

## 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.

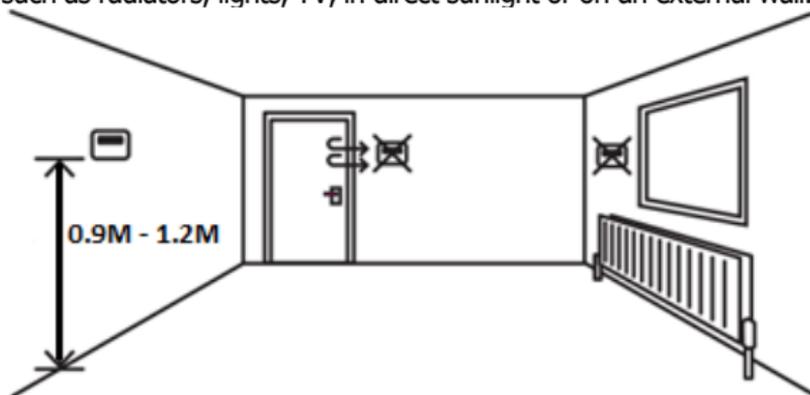
Please leave the user instructions with the end user where they should be kept in a safe place for future reference.

## Warning Notice

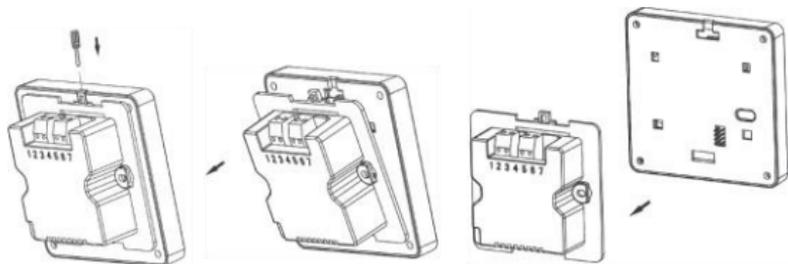
**WARNING:** *Always isolate the ac mains supply before installing. This product must be fitted by a competent person, and installation must comply with the guidance provided in the current editions of BS767 (IEE wiring regulations) and part "P" of the building regulations.*

## Installing the Thermostat

The latest government guidelines state the ideal position to locate your Room Thermostat is between 0.9M & 1.2M 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, in direct sunlight or on an external wall.

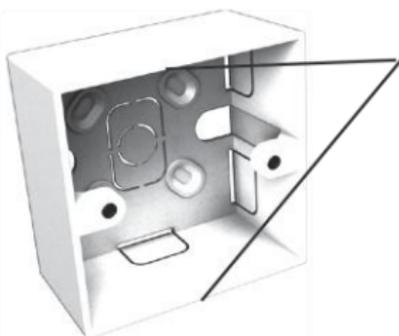


1. Use a flat headed screwdriver to press the fastener at the top of the unit, then gently loosen from the unit, unhooking from top to bottom.



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, push down the

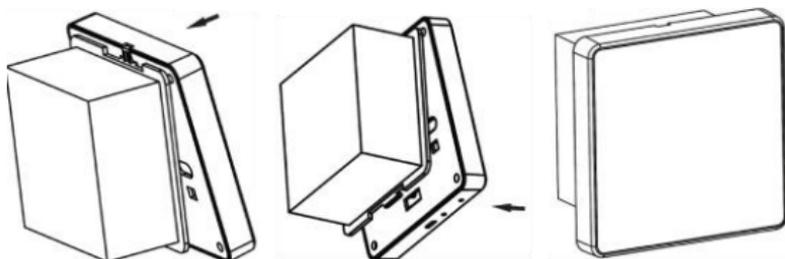
flanges on the top and bottom to leave only the flanges on the left and right hand side.



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.

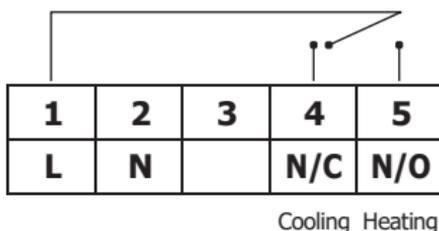
1. Route the wires through the back of the wall plate. Fit the wires to the wall-plate in accordance with the relevant diagram and in accordance with I.E.E. regulations.



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

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

### Wiring Diagram



**N.B.** *Shown in OFF position*

- 1 L: Live
- 2 N: Neutral
- 4 NC (Cooling): Normally Closed
- 5 NO (Heating): Normally Open

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## Technical Settings Menu (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:

**dSOS:** Optimum and Delayed Start. *See section 4.*

**OSSt:** Optimum Stop. *See section 4.*

**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 5* to amend.

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

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# Optimum/Delayed Start & Optimum Stop

## Optimum & Delayed Start

1. On the thermostat **press** and **hold** **>** until **tIne** is displayed
2. Move the dial up until **tEch** is displayed
3. **Press** and **hold** **<** and **>** together until you see **dSOS** (Delayed Start, Optimum Start)
4. **Press** **>** and turn the dial to choose between:
  - OS** – Optimum Start is on
  - dS** – Delayed Start is on
  - OFF** – Optimum & Delayed Start are both off*Note – Optimum Start and Delayed Start cannot both be on at the same time*
5. **Press** **>** to confirm
6. **Press** **<** until the temperature is displayed to return to the home screen.

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## Optimum Stop

7. On the thermostat **press** and **hold** > until **tIne** is displayed
8. Move the dial up until **tEch** is displayed
9. **Press** and **hold** < and > together until you see **dSOS**
10. Turn the dial up and **OSSt** (Optimum Stop) will be displayed
11. **Press** > and turn the dial to choose between
  - Off** – Optimum Stop is off
  - On** – Optimum Stop is on
12. **Press** > to confirm
13. **Press** < until the temperature is displayed to return to the home screen

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# Landlord settings (SEr)

## Setting the Landlord Service (SErS)

14. To set the landlord service, enter the landlord service settings (See *section 8.2*). Use the dial to select **SErS** then **press >**.
15. Use the dial to enter the password 0000, using **>** to move to the next digit. Then **press >** to enter technical settings.
16. 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** on 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.

## 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.

## 4.2 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 home screen. 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.

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**WARNING: Interference with sealed parts renders the guarantee void.**

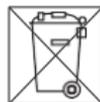
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We are continuously developing our products to bring you the very latest in energy saving technology and simplicity. However, should you require any further information, please visit [esicontrols.co.uk](http://esicontrols.co.uk)



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