![ESi logo](Energy Saving Innovative Controls Limited)

ESRTP6C

Single Zone Thermostat controller

Installation Instructions

1. 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 are 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.

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 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.*
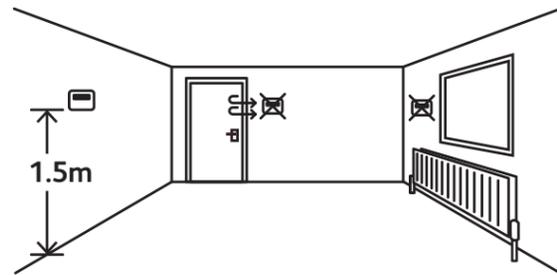
Maintenance

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.
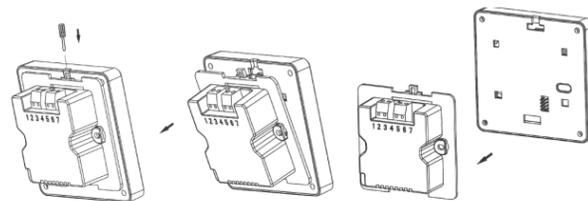

Fitting the Programmable Room Thermostat

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.
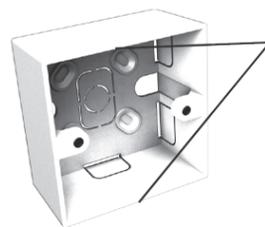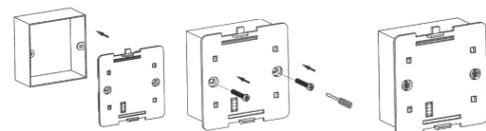

1.5m

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.
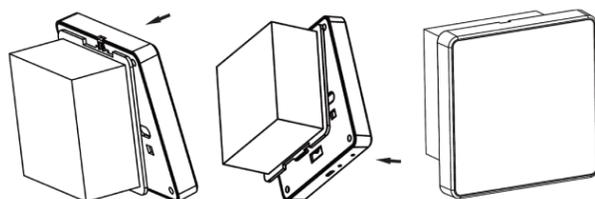

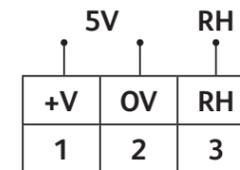If there are 4 flanges, push down the top and bottom flanges to leave just 1 on either side.

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.

Wiring Diagram

5V		RH
+V	0V	RH
1	2	3

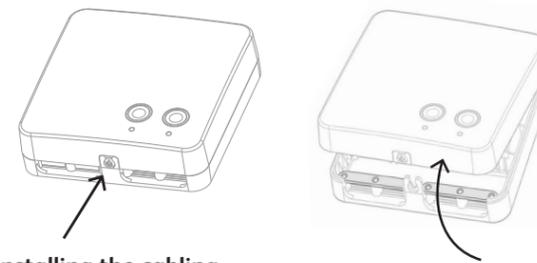### Required during installation:
- Permanent 230V power
- Single SL to Boiler Cable
- Low voltage 3 core cable from power supply to room thermostat

Preparing the power supply for installation:
- Find a suitable location near the boiler
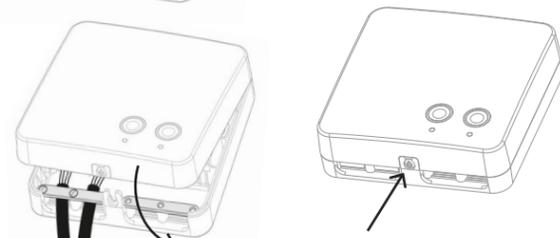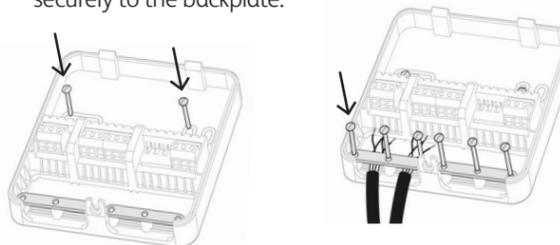- Loosen the screw at the bottom on the cover

Installing the cabling
- Hinge open and remove the front cover to reveal the terminals on the back plate
- Secure the back plate to a non-combustible flat surface or wall box
- Install the 230V power supply, switched live and 3 core low voltage cable. (N.B. Do not remove the link wire)

Combination Boiler: *Do not remove link wire or use terminals 1-5.*

Other applications: *Please see instructions for other installations using a zone valve.*

- Use the cable clamps to secure all surface wiring
- Replace the cover by first locating the two lugs at the top and swing down. Re tighten the screw to hold the cover securely to the backplate.

Max 6mm

min 0.25mm²
max 1.5mm²

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2. Technical Data

	RTP6C Programmable Room Thermostat	Power Supply
Temperature Control Class	ErP Class IV Product (2%)	
Energy Efficiency Technology	TPI (Chrono-proportional) Control, DS (Delayed Start)	
Programming	7 day, 5/2 day & 24 hour	
Power Supply	5VDC	230VAC
Temperature Adjustment Range	5°C to 35°C	
Total Switch Rating		3(1)A
Heating Contact Type	5VDC	230VAC Switched Live
Temperature Sensor Type	Multi-thermistor with intelligent compensation	
Temperature Accuracy	+/- 1°C @ 20°C	
Enclosure material	Flame retardant thermoplastic	
Ingress Protection Class	IP30	
Dimensions *(main unit, excluding connections)*	D14mm x W87mm x H88mm	D30mm x W110mm x H115mm
Programme Events	Fully programable, selectable 4 or 6 per day.	
Clock	Crystal controlled, Automatic time change Summer/Winter (BST/GMT). Settable time-zone offsets	
Standard Compliance	EN60730-1 EN60730 2.7, EN55014 1:2006+A1:2009+A2:2011, EN61000-3-2:2014, EN61000-3-3:2013, EN55014-2: 2015, EN60730-1:2011, EMC Directive 2014/30/EU, LVD Directive 2014/35/EU	

Continued overleaf

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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 have any questions setting up your controls please email us at **sales@esicontrols.co.uk**.

Version 2.0

3. Optimisation Settings

- To enter the Advanced Menu, first wake the thermostat up by touching the home button.
- Touch and hold the ☰ until ADVANCED SETTINGS is displayed.
- Use the ⌄⌃ to navigate to the desired menu to be changed (OPTIMISATION).
- Touch the Home button to enter the menu, accept changes and move to the next settings.

OPTIMISATION	OPTIMUM STAR OFF	PTIMUM START ON
Use ⌄⌃ to navigate to optimisation. Touch the home button to enter optimisation settings.	Touch the home button to enter heating settings. Digits which are flashing can be adjusted using ⌄⌃.	Select either OFF (default) or ON by using the ⌄⌃. Touch the home button to accept and return to menu.

SAVING	OPTIMISATION	OPTIMUM STOP OFF
	Touch the home button to enter optimisation settings. Navigate to OPTIMUM STOP by using ⌄⌃.	Repeat the above to change all the settings.

SAVING

4. Technical Settings

- To enter the Technical Menu, navigate to the Installer Settings whilst in the Advanced Menu, touch and hold the ☰ until TECHNICAL SETTINGS is dispalyed.
- Use the ⌄⌃ to navigate to the desired menu to be changed (INSTALLER DETAILS).
- Touch the Home button to enter the menu, accept changes and move to the next settings.

TECHNICAL SE	LOW TEMP PRO	LOW TEMPERAT 05s TEMPERATURE
Touch the home button to enter TECHNICAL SETTINGS.	Touch the home button to enter LOW TEMPERATURE PROTECTION menu.	USE the ⌄⌃ to set the desired temperature and touch the home button to save changes and return to the menu.

SWING	SWING 05s TEMPERATURE	SAVING
USE the ⌄⌃ to navigate to the SWING menu and touch the home button to enter menu.	USE the ⌄⌃ to set the desired temperature and touch the home button to save changes and return to the menu.	

TEMPERATURE	CALIBRATION 05s TEMPERATURE	SAVING
USE the ⌄⌃ to navigate to the TEMPERATURE CALIBRATION menu and touch the home button to enter menu.	USE the ⌄⌃ to set the desired temperature and touch the home button to save changes and return to the menu.	

5. Entering Installer Details

- Navigate to the Technical Menu – See Section 4.
- Use the ⌄⌃ to navigate to the desired menu to be changed (INSTALLER DETAILS).
- Touch the Home button to enter the menu, accept changes and move to the next settings.

TECHNICAL SE	INSTALLER DE	NAME yyxx
Use ⌄⌃ to navigate to INSTALLER DETAILS Touch the home button to enter optimisation settings.	USE the ⌄⌃ to enter the correct digit and touch the home button to move to the next digit.	Once name is completed continue to touch the home button until the screen shows saving.

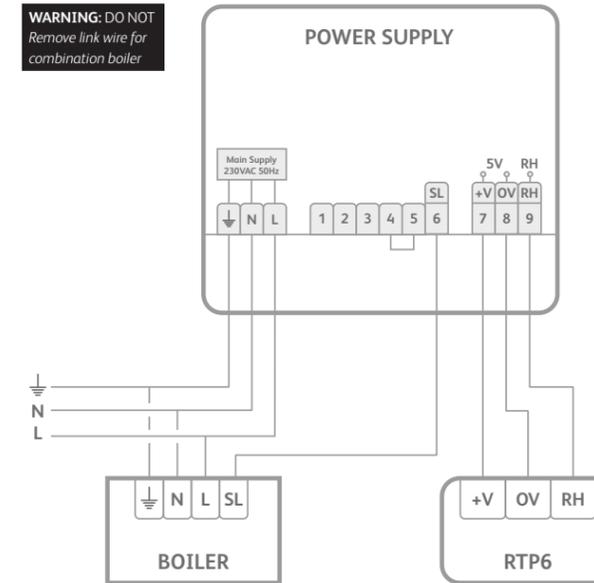| SAVING	TELEPHONE	SAVING
After saving is complete the screen will display the installer TELEPHONE NUMBER.	USE the ⌄⌃ to enter the correct number and touch the home button to accept and move to the next number.	Once number is completed continue to touch the home button until the screen shows saving.

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6. Wiring Diagrams

Combination boiler

WARNING: DO NOT *Remove link wire for combination boiler*

POWER SUPPLY

Main Supply 230VAC 50Hz

N L   1 2 3 4 5 6 SL   5V RH +V OV RH 7 8 9

N L SL
BOILER

+V OV RH
RTP6

Standard boiler

WARNING: *Remove link wire before installation*

POWER SUPPLY

Main Supply 230VAC 50Hz

G/Y BLUE GREY BROWN ORANGE S/L

N L   1 2 3 4 5 6   5V RH +V OV RH 7 8 9

N L SL
BOILER

+V OV RH
RTP6

G/Y BL GY BR OR
ZONE VALVE