

# Twin 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 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 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.

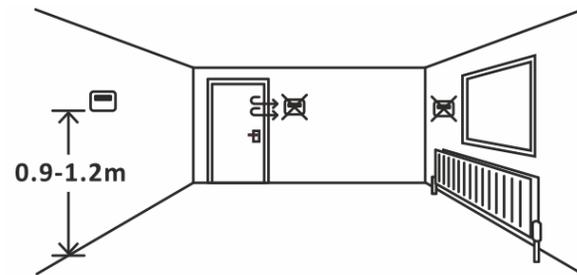
### Maintenance

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

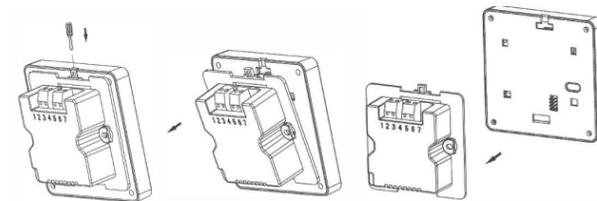
### Fitting the Programmable Room Thermostat

The ideal position to locate the Programmable Room Thermostat is about 0.9-1.2m 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, direct sunlight or on an outside wall.

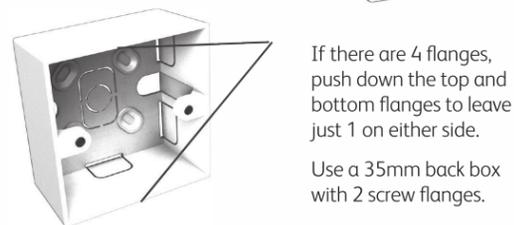
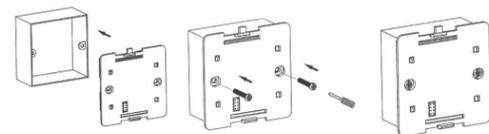


### Installing the Programmable Room Thermostat

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.

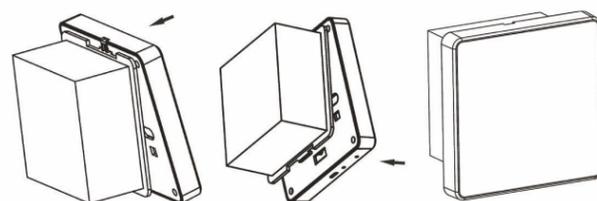


If there are 4 flanges, push down the top and bottom flanges to leave just 1 on either side.

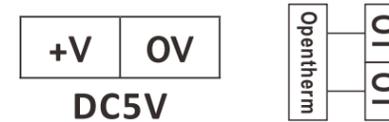
Use a 35mm back box with 2 screw flanges.

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.



### Room Thermostat Connections

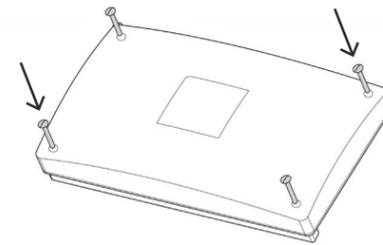


### Required during installation:

- Permanent 230V power
- Opentherm to Boiler Cable
- 2 x Low voltage 4 core cable from power supply to room thermostat

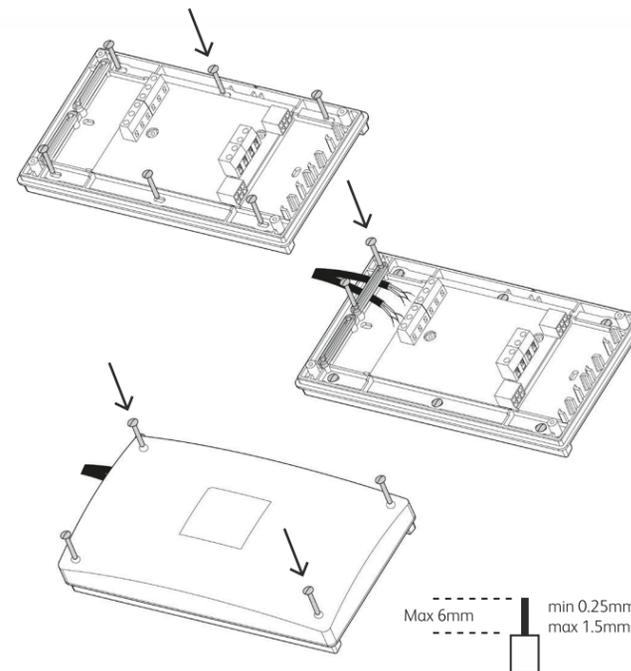
### Preparing the power supply for installation:

- Find a suitable location near the zone valves
- Loosen the 4 screws at the corner of the cover



### Installing the cabling

- Remove the front cover to reveal the PCB and terminals on the back plate
- Secure the back plate to a non-combustible flat surface within 1 meter of the zone valves
- Install the 230V power supply, opentherm and 4 core low voltage cable
- Install the zone valve plugs, taking note of zone 1 and zone 2
- Use the cable clamps to secure all surface wiring
- Replace the cover then tighten the 4 screws



Max 6mm  
min 0.25mm<sup>2</sup>  
max 1.5mm<sup>2</sup>

## 2. Technical Data

	ESRTP6COT / ESRTP6CWOT Programmable Room Thermostat	Power Supply
Temperature Control Class	ErP Class VIII Product (5%)	
Energy Efficiency Technology	Multi-sensor room temperature control, with enhanced load compensator.	
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	D35mm x W120mm x H210mm
Programme Events	Fully programmable, 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

**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](mailto:sales@esicontrols.co.uk).

### 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.



Use to navigate to optimisation. Touch the home button to enter heating settings. Digits which are flashing can be adjusted using .

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.



Touch the home button to enter optimisation settings. Navigate to OPTIMUM STOP by using .

Repeat the above to change all the settings.



### 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 displayed.
- 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.



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.



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.



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.



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.



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.

### 6. DHW Temperature

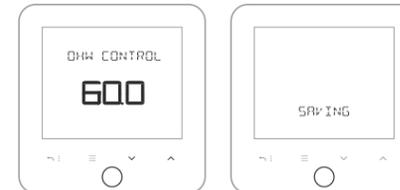
- To enter the Advanced Menu, first wake the thermostat up by touching the home button.
- Touch and hold the until ADVANCED SETTINGS is displayed.
- Use the to navigate to the desired menu to be changed (OPENTHERM PARAMETER).
- Touch the Home button to enter the menu, accept changes and move to the next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



Use to navigate to DHW CONTROL. Touch the home button to enter DHW control settings.

Touch the home button to enter heating settings. Digits which are flashing can be adjusted using .

Select ON by using the . Touch the home button to enter DHW temperature menu.



Use the to set the desired temperature and touch the home button to save changes and return to the menu.

### 7. Wiring Diagram

