

ESRTERFW

Wireless Digital 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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Installation Instructions

Technical data

Wireless Digital Room Thermostat with TPI	
Fixing	Easy Fit Back Plate
Sensing Element	Electronic
Power Supply	230VAC, 50Hz
Switch Action	3(1)A 230VAC
Temperature Setting Range	5°C to 30°C
Current rating	Maximum 3(1)Amp
Terminal Differential	<0.6°C at 4°/hour
Switch Type	SPDT
Dimensions	L: 85mm x H: 85mm x D: 35mm
Complies with	EN60730-1, EN60730-2.7, EMC Directive 2004/108/EC, LVD Directive 2006/95/EC

Receiver	
Fixing	Easy Fit Back Plate
Power Supply Voltage	230VAC, 50Hz
Power Consumption	6W
Contact Type	6 (2)A. 230VAC SPDT (Volt Free changeover contacts)
Plastic	Thermoplastic, flame retardant
Protection Rating	IP30
Dimensions	135mm(L) x 90mm(W) x 33mm(D)
Complies with:	EN60730-1 EN 60730-2.7, EMC Directive 2004/108/EC, LVD Directive 2006/95/EC

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 6 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.

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 competent person on every part of the heating and hot water system.

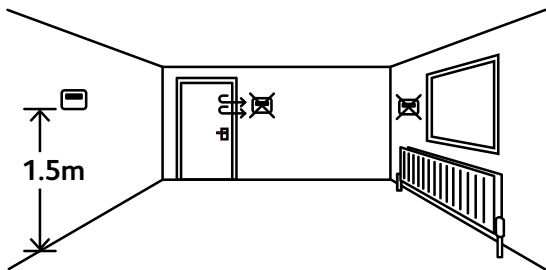
Safety Notice

WARNING!

Always isolate the AC mains supply before installing. this product must be fitted by a qualified 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.

Fitting the 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.



Installation

1. Loosen the screws on the back-plate and remove from the Unit.
2. If required, fix the back-plate, terminals at the top, either direct onto a flat wall using wall plugs and screws or on a flush mounting single conduit box.

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3. Insert the AA batteries provided and replace the front cover of the thermostat.

Fitting the Receiver

Installation

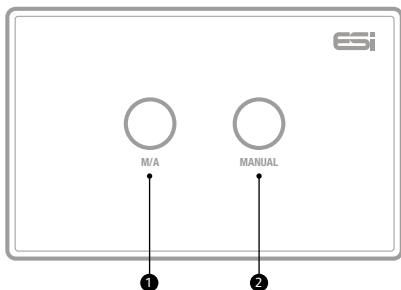
1. Loosen the screws on the back-plate and remove from the Unit.
2. Fix the back-plate, terminals at the top, either direct onto a flat wall using wall plugs and screws or on a flush mounting single conduit box. Route the wires through the back of the wall plate and fit the wires to the wall-plate in accordance with the relevant diagram and in accordance with I.E.E. regulations.
3. Fit the Unit onto back-plate, and tighten the screws. Ensure an appropriate fuse is fitted to the circuit before reconnecting to the mains supply.

Commissioning/Configuring

1. If the receiver and thermostat have been supplied as a kit, the units have already been paired in the factory and no pairing is needed.
2. Power up the receiver and both lights should come on for a few seconds.
3. Press and hold M/A (Manual/Auto) button ❶ (See page 10) for approximately 10 seconds until the MANUAL light ❷ (See page 10) begins to flash (green).
4. Insert batteries in the thermostat, turn dial up to 5 and remove dial.
5. Press and hold the black button until the receiver light goes off.
6. To check it is paired, turn the thermostat above room

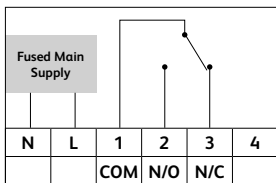
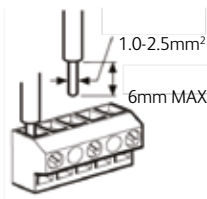
temperature and check that the red manual button (on the receiver) lights up.

7. If unsuccessful, leave the unit powered on for 5 minutes and repeat the steps above.



Wiring Diagram

Room Thermostat Receiver



N.B. Volt free contacts.

Terminal	Identifier	Description
N	Neutral	Neutral
L	Live	Live Feed (230V AC)
1	COM	Linked Live Feed (230V AC Heating Applications Only)
2	N/O	Normally open
3	N/C	Normally closed (NC)

DIP Switch Settings - Heating

		HEAT
COMP DELAY (TPI) OFF		COMP DELAY (TPI) ON
6 CYCLES		3 CYCLES
°F		°C

Heating Mode

Option to switch to:

1. Chronoproportional (Chrono)
2. 3 or 6 cycles (Chrono on only)
3. °F or °C

Receiver Manual Override

It is possible to operate the receiver manually. This may be necessary where, for example, the batteries in the Thermostat (Transmitter) are depleted and therefore the heating cannot turn on or off.

To engage the manual override, press the MANUAL button ❷ (See page 10) on the receiver, which will then light up with a green background.

After 2-3 seconds, press the M/A button ❶ (See page 10), which may be ON (red background) or OFF. This will manually override the status of the receiver. If ON, the heating will turn OFF (M/A red light goes off). If OFF, the heating will turn ON (M/A red light comes on).

N.B. *It is important to remember that the automatic control of the receiver is now off and the receiver will only respond to manual operations.*

To return to automatic mode, press the M/A button ❶ (with or without the red light on) and then press MANUAL button ❷ (See page 10). The receiver should now be back in automatic mode, receiving commands from the thermostat.

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**.

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.



Energy Saving Innovative Controls Limited
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