Energy Saving Innovative Controls Limited

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 3-year warranty within 30 days of purchase. Products registered after 30 days of purchase will qualify for 1 year warranty.

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

Contents

Technical Data

Wireless Digital Room Thermostat with TPI	
Fixing	Easy Fit Back Plate
Sensing Element	Electronic Thermistor
Power Supply	2 x AA Batteries
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
RF 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	L: 135mm x W: 90mm x D: 33mm
Complies With	EN60730-1, EN60730-2.7, EMC Directive 2004/108/EC, LVD Directive 2006/95/EC

Maintenance

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

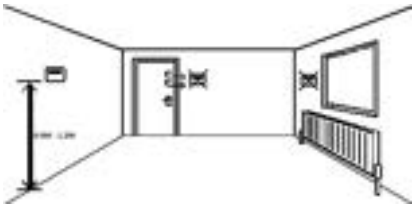
Safety Notice

WARNING!

Always isolate the AC mains supply before installing. This product must be installed by a qualified person and installation must comply with the guidance provided in the current editions of BS7671 (IEE wiring regulations) and part 'P' of the building regulations.

Installing the Room Thermostat

The latest government guidelines state that a thermostat should be installed between 0.9M and 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 install the thermostat near sources of heat, such as radiators, lights, TV, direct sunlight or on an outside wall.



1. Loosen the screws on the backplate and remove from the unit.
2. Attach the backplate onto a flat wall using wall plugs & screws or on a flush mounting single conduit box.
3. Insert the AA batteries provided & attach the thermostat to the backplate, tightening the screws underneath.

Installing the RF Receiver

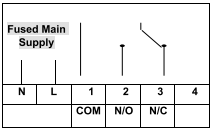
1. Loosen the screws under the unit and remove the backplate.
2. Attach the backplate, terminals at the top directly onto a flat wall using wall plugs & screws, or on a flush mounting single conduit box. Route the wires through the backplate and attach them to the terminals in accordance with the relevant diagram and in accordance with I.E.E. regulations.
3. Attach the RF Receiver onto the backplate and tighten the screws. Ensure an appropriate fuse is fitted to the circuit before connecting to the mains supply.

RF Pairing (Commissioning/Configuring)

The thermostat & RF receiver will have already been paired in the factory, so no pairing should be necessary. However, if RF comms are lost, follow the steps below.

1. Press & hold the M/A button for approximately 10 seconds, until the MANUAL button flashes green.
2. Ensure the thermostat has good quality batteries.
3. Move the thermostat dial to number 1 and remove the dial by firmly pulling it away from the thermostat.
4. You will see a small black button in the space where the dial was. Hold this button until the receiver light stops flashing.
5. Return the dial to the thermostat with number 1 at the top. Turn the dial to a level above the room temperature and check the M/A button is illuminated red.
6. If unsuccessful, isolate the power to your RF receiver for 5 minutes, then switch the power back on and repeat the steps above.

Wiring



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

DIP Switches

COOL	HEAT
TPI ON	TPI OFF
6 Cycles	3 Cycles
°F	°C

Typical setup for a property with gas heating.

Use 3 cycles for oil heating.

RF Receiver Buttons

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

To engage manual override, press the MANUAL button on the RF receiver, which will then light up green. The solid green light is letting you know your RF receiver is now in Manual Override.

After 2-3 seconds, press the M/A button. This button will light up red to show a manual demand for heat.

When you no longer require the heating to be on, press the M/A button again to switch the heating off. The red light will disappear to signify there is no demand for heat.

When the green light is on (RF receiver is in manual override), your RF receiver will not listen to any commands given by your thermostat.

To return control back your thermostat, tap the MANUAL button to turn off the green light.

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.