



Ignite Wired (2ch) Installation Guide *Rev 1.2*



CAUTION: High Voltage Wires

WARNING Electricity is dangerous. Before commencing work, ensure that you read and understand these instructions and isolate the relevant circuit. **This product should only be installed by a qualified electrician or heating engineer** and should be installed in accordance to BS 7671 (IEE Wiring Regulations), or to another equivalent standard.

What's in the box

- 1 x Assembled Room Thermostat consisting of
 - 1 x Room Thermostat
 - 1 x Wall Mount
 - 1 x Wall Blanking Plate
- 1 x Screw Pack

Introduction

The Ignite Wired (2ch) is designed to control a typical domestic central heating system. The Thermostat can switch two channels, Central Heating and the Hot Water.

Please ensure you have a 4 (S Plan) or 5 (Y Plan) core cable present at the Thermostat location. If you cannot run a cable, consider using our Ignite Wireless series. Once installed, your central heating and Hot Water can be switched on and off in response to commands from the Thermostat or remotely using a computer or Smart Phone.

Specifications

Power Supply: 230V~ 50...60Hz

Output: 230V

Switch Type: 1 x SPST, 1 x CO

Switch Rating: 1 Amps

Controllable Temperature Range: 10 – 30°C

Frost Protection: Programmable from 0.5 - 30°C

Radio Frequency: 2.4 GHz WiFi

Dimensions: 103 x 103 x 45 mm (max)

Radio Signal

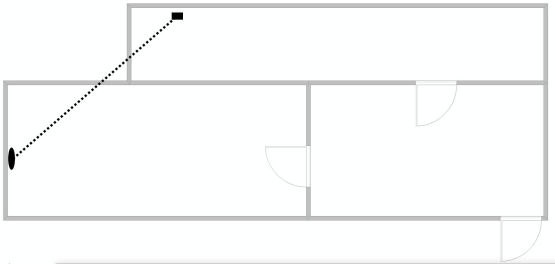
The Thermostat uses WiFi, so you need a WiFi signal where the Thermostat is located.

You can use your phone to get a good indication of signal strength, hold this against the wall where the Thermostat is located.

If you cannot get a good signal, consider using a Wifi Range extender to help boost the signal around the property.

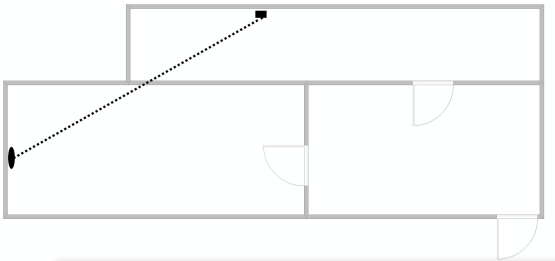
Bad Positioning

The below image shows the path that the signal will travel to communicate between the Router and Thermostat. This is an example of badly positioned items for the following reasons.



The signal travels between 2 external walls.

Good Positioning



Simply by moving the router slightly to the right we have greatly improved the signal. The signal will now only travel through one internal wall

Installation

Preparing your new Thermostat

There is a back panel that can be used to fully cover single gang back boxes.

If this is not required, it can be removed from the wallmount by twisting it anti-clockwise.

(Fig 1)

Pull the thermostat away from the wall mount. (Fig 2)

Finally, remove the Wiring cover from the wall mount by undoing the screw and pulling this away. (Fig 3)

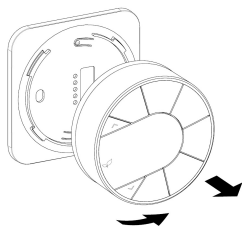


Fig 1

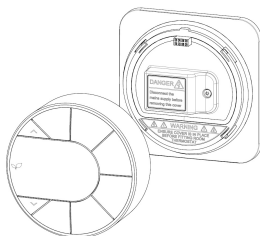


Fig 2

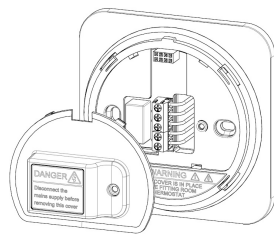


Fig 3

Installing the Wall Mount

For reliable operation, the Thermostat must mount correctly on the wall mount.

If you have a single gang back box, secure the wall mount to this using the two M3 screws provided.

If you do not have an existing back box then, using the wall mount as a template, mark the location of the two holes on the wall. For reference, the two holes are 60.3 mm apart. Drill suitable holes (6mm diameter for the supplied wall plugs) and fix the wall mount to the wall using appropriate wall plugs and screws.

WARNING be aware of any buried cables before drilling.

We would recommend using our supplied screws where possible. If not, ensure the screw heads do not protrude above the surrounding wall mount plastic.

This unit is designed for fixed wiring only. Wire the unit up following the appropriate circuit schematic for your heating system type, ensuring that all wires are securely held and that no bare copper is visible outside the connector block. For ease of wiring, we recommend 1mm² cable. All wiring should conform to the current IEEE wiring regulations.

All diagrams are in schematic form and earths have been omitted on the drawings for clarity. This is a class 2 device and does not require an earth. Ensure that you do not break earth continuity to the rest of the circuit. You may need to join the existing earth leads together using a terminal strip. Ensure that the circuit is protected by a 3 amp fuse.

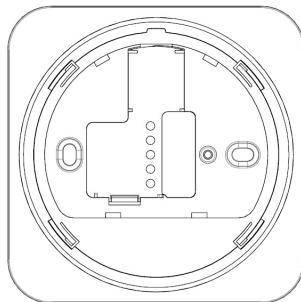


Fig 4

For guidance please refer to the wiring diagrams below.

Fig 5: S Plan

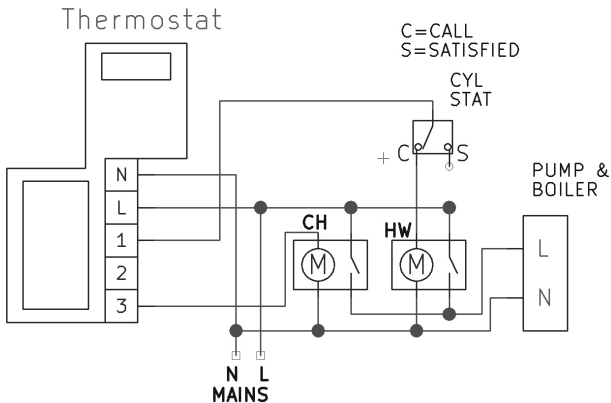
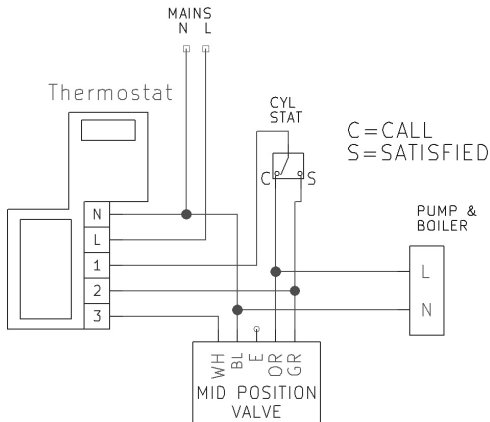


Fig 6: Y Plan



After the wiring has been completed, push the wiring cover into place and secure using the screw provided. (Fig 8)

Place the Thermostat over the wall mount, this will click into place(Fig 9) then secure the Thermostat to the wall mount using the three small pozi screws provided.

Testing the system

If the central heating times were controlled by a programmer or timer (external or integrated into the boiler) and these are still wired into the system, these must be left switched to On or Continuous.

The room containing the Thermostat must not have a Thermostat Radiator Valve (TRV) fitted to the radiator(s). If this is the case, this must be removed.

Restore power to the circuit, the Thermostat screen should be illuminated.

Press the 'CH MODE' key until the CH Selector hovers over Man.

Press the '^' key until the temperature is above the room temperature.

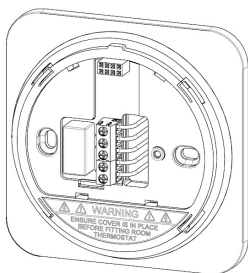


Fig 7

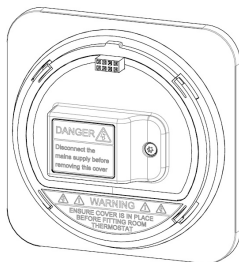


Fig 8

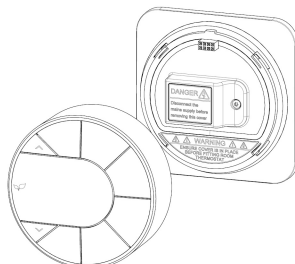


Fig 9

Testing the system (continued)

You should see a flame icon appear and hear the relay click within the unit. Check that the boiler has fired up and any zone valves have moved to their appropriate positions.

Press the 'CH MODE' key again. You should hear the relay click off, the flame icon will go out and boiler should no longer be on (please allow a few minutes for the boiler to switch off).

Press the 'HW MODE' key until the HW Selector hovers over Man.

You should see a flame icon appear and hear the relay click within the unit. Check that the boiler has fired up and any zone valves have moved to their appropriate positions.

Press the 'HW MODE' key again. You should hear the relay click off, the flame icon will go out and boiler should no longer be on

Please leave this installation manual with the user.

Are you an installer who is interested in fitting more of our Smart Thermostats?

Register for a trade account today and benefit from exclusive trade pricing, 30 days interest free credit and a free listing on our installer directory.

Find out more at <https://www.inspirehomeautomation.co.uk/trade>