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### Important: Keep this document

Prior to operation, it is necessary to complete all required settings described in this section.



The TR1 and TR2 RF Transceiver Pack is used to establish a wireless link between 2 locations. It can wirelessly send a signal from the TR1 to the TR2 and from the TR2 back to the TR1 if required.

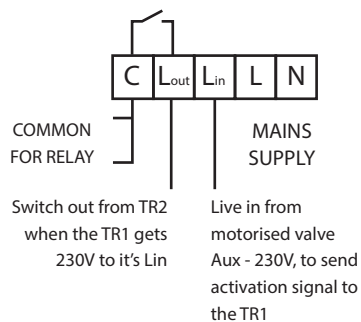
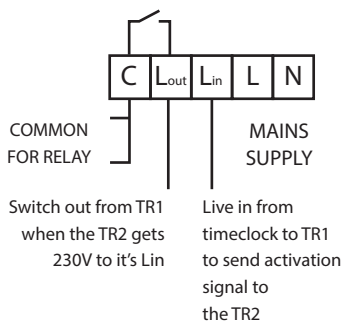
## 1. Specifications & wiring

Power Supply: 230 Vac 50Hz  
Contact Rating: 250 Vac 10(3)A  
Ambient Temp: 0 ... 50°C

Class II appliance   
Pollution degree 2: Resistance to voltage surge 2500V; as per EN 60730

Internal wiring diagram TR1

Internal wiring diagram TR2



## 2. Mounting

The TR1/ TR2 Transceiver should be wall mounted in an area within 20 metres distance of the wireless thermostat.

It is important that the receiver is mounted more than 1 metre away from metal objects as this will affect communication with the thermostat.

The receiver should also be installed at least 1 metre from any electronic devices such as radio, TV, microwave or wireless network adaptor.

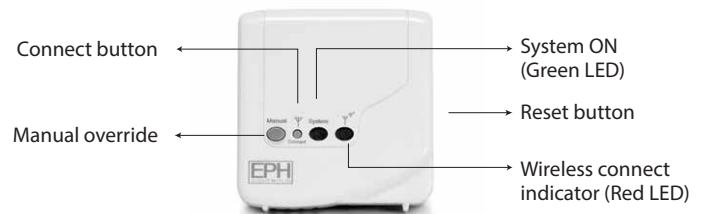
- The unit can be fitted to:
1. Recessed conduit boxes
  2. Surface mounting boxes

## 3. Installation

Slacken the fastening screw on the bottom of the receiver with a philips screwdriver.

The receiver is hinged and can be opened 180 degrees. Mount the unit as described in section 2. Wire the unit as described in section 1. Close the receiver and tighten the fastening screw.

## 4. Button / symbol description



**Wireless connect:** Once voltage has been applied this button may be pressed to initialise the pairing process with the wireless thermostat. Once pressed the green LED will begin to flash.

**Manual override:** This button will manually override the system. (Only when disconnected)

**Wireless connect indicator:** This LED will flash on receiving wireless signals. If it is constantly ON, the TR1 transceiver has been disconnected from the wireless thermostat.

## 5. To connect the TR1 to a TR2

Press the 'Connect' button on TR1 and TR2, the green light on TR1 and TR2 will begin to flash.

After connecting successfully, the red LED will be constantly 'ON' for the TR2.

The red LED will be constantly ON and green LED will flash on the TR1.

Now press the 'Manual' button on the TR1 to exit to main interface.

## 6. To disconnect TR1 and TR2

The disconnection procedure is done on the TR1.

Press the 'Connect' button on TR1, the green LED will flash.

Then press the 'Connect' button on TR1 for 2 seconds, the red LED will flash and green LED will be off.

Press the 'Manual' button on TR1 within 5 seconds followed by the 'Reset' button, the TR1 and TR2 are now disconnected.

### To manually operate the TR2

Press the 'Reset' button located on the side of TR2.

The TR2 'Manual' button is now active.

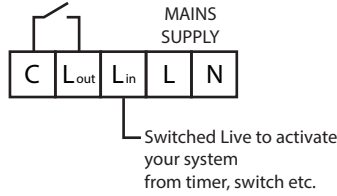
### 7. Wiring examples

#### TR1

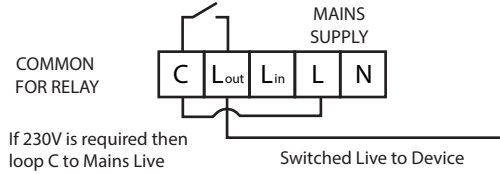
#### TR2

##### EXAMPLE 1 Wirelessly completing a 230V connection

a.) On TR1 When Lin receives 230V, TR1 sends a wireless signal to TR2.

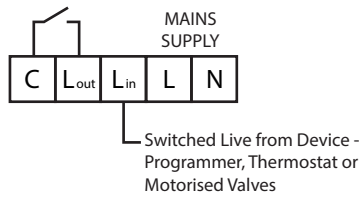


b.) On TR2 N/O contact will close and can switch any device with a 230V switched live.

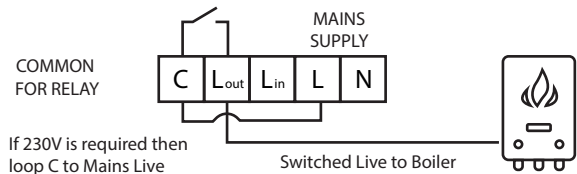


##### EXAMPLE 2 Single Wireless Switch - TR1 to TR2 only - 230V out to boiler

a.) On TR1 When Lin receives 230V, TR1 sends a wireless signal to TR2.

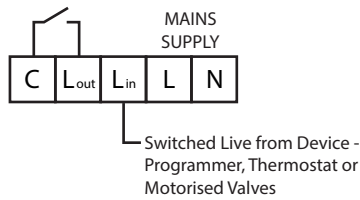


b.) On TR2 N/O contact will close and switches on the boiler with a 230V switched live.

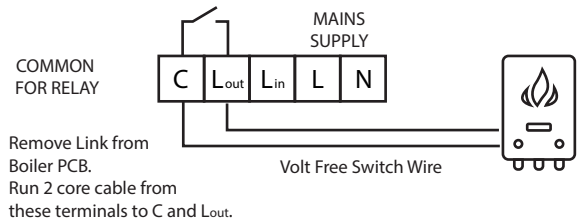


##### EXAMPLE 3 Single Wireless Switch - TR1 to TR2 only - Volt Free Switch to Boiler

a.) On TR1 When Lin receives 230V, TR1 sends a wireless signal to TR2.



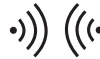
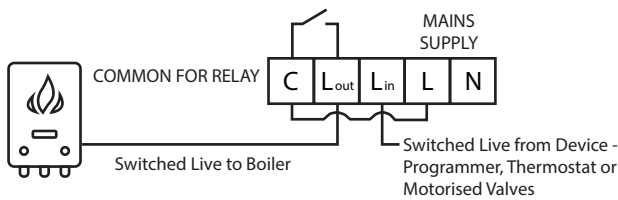
b.) On TR2 N/O contact will close and switches on the boiler with a volt free switch.



##### EXAMPLE 4 Double Wireless Switch - TR1 to TR2 and TR2 back to TR1 - 230V

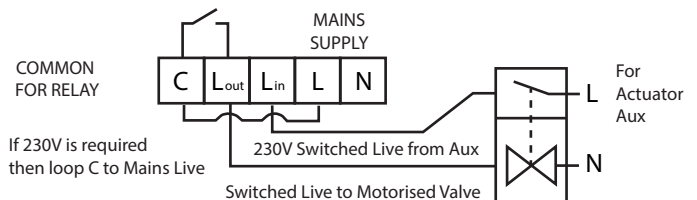
a.) On TR1 When Lin receives 230V, TR1 sends a wireless signal to TR2.

c.) On TR1 N/O contact on TR1 will close and switches the boiler with a 230V switched live.



b.) On TR2 N/O contact will close. Motorised valve will open.

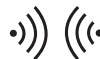
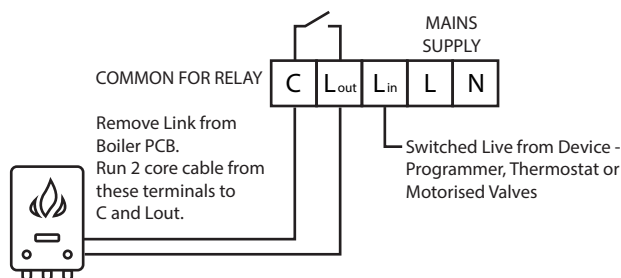
Auxiliary switch on motorised valve will close and send 230V to Lin on TR2. TR2 will send a wireless signal back to TR1.



##### EXAMPLE 5 Double Wireless Switch - TR1 to TR2 and TR2 back to TR1 - Volt Free

a.) On TR1 When Lin receives 230V, TR1 sends a wireless signal to TR2.

c.) On TR1 N/O contact on TR1 will close and switches the boiler with a Volt free switch.



b.) On TR2 N/O contact will close. Motorised valve will open.

Auxiliary switch on motorised valve will close and send 230V to Lin on TR2. TR2 will send a wireless signal back to TR1.

