# **TR1 TR2 RF Transceiver Pack**

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#### Important: Keep this document

Prior to operation, it is neccessary 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.

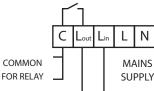
#### 1. Specifications & wiring

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 TR2

#### Internal wiring diagram TR1



Live in from

signal to

the TR2

COMMON FOR RELAY Switch out from TR2 when the TR1 aets timeclock to TR1 to send activation

SUPPLY Live in from motorised valve 230V to it's Lin

Aux - 230V, to send activation signal to the TR1

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#### 2. Mounting

Switch out from TR1

when the TR2 gets

230V to it's Lin

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.

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#### CAUTION!

Before commencing any work on the electrical connections, you must first disconnect the device from the mains. None of the 230V connections must be live until the installation has been completed and the housing is closed. Only qualified electricians or authorised service staff are permitted to open the terminal box

There are parts that carry mains voltage behind the cover. The terminal box must not be left unsupervised when open. (Prevent non specialists and especially children from gaining access to it.)

Ensure that this wireless enabled receiver is installed 1 metre from any metalic object, television, radio or wireless internet transmitter.

### 4. Button / symbol description

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Wireless connect: Pressed to initialise the pairing process with the other receiver.

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 blinking, the TR1 transceiver has been disconnected from the TR2.

### 5. To connect the TR1 to a TR2



Press the Oconnect' 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 O '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.



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