



# EPH Controls RF1A Programmable RF Thermostat Instruction Manual

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**EPH Controls RF1A Programmable RF Thermostat**



## Specifications

- **Class II appliance Pollution degree 2:** Resistance to voltage surge 2500V; as per EN 60730
- Internal wiring diagram for RF1A 321LN

## ON COM OFF L N

If the mains voltage output is required, terminals L & 2 must be electrically linked.

## Mounting

- The RF1A receiver should be wall-mounted in an area within 20 meters distance of the wireless thermostat.
- The receiver must be mounted more than 1 meter away from metal objects as this will affect communication with the thermostat.
- The receiver should also be installed at least 1 meter from any electronic devices such as radio, TV, microwave or a wireless network adaptor.

## The unit can be fitted to:

1. Recessed conduit boxes
2. Surface mounting boxes

## 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.

## Button / LED Description

- **Connect button:** Manual override
- **System ON** (Green LED)
- **Reset button**
- **Wireless connect** indicator (Red LED)
- **Wireless connect:** Once voltage has been applied this button may be pressed to initialize the pairing process with the wireless thermostat. Once pressed the red and green LED will begin to flash.
- **Manual override:** This button will manually override the system.
- **Wireless connect indicator:** This LED will flash on receiving wireless signals. If it is constantly ON, the RF1A receiver has been disconnected from the wireless thermostat.

### **Resetting the RF1A Receiver**

- Press the RESET button located on the side of the receiver. Within 2 seconds, press the `Connect` button. The RF1A receiver is now reset.

### **To Connect the TRFPi2 Thermostat to an RF1A Receiver**

- Please note, If you are installing a CombiPack2 the TRFPi2 thermostat and the RF1A receiver will have a pre-established RF connection so it is not necessary to carry out the RF connection process below.

#### **On the RF1A receiver:**

1. Press the button. The red and green lights will begin to flash.
2. Connect

#### **On the TRFPi2 thermostat:**

1. Press the Connect button. The thermostat will begin to search through the RF channels.
2. Once an RF connection has been established the thermostat will show `r01` on the LCD screen.
3. Press the `OK` button to finish the process. The thermostat is now connected to the RF1A receiver. `RF Connect` appears on the screen.

### **To Disconnect the TRFPi2 Thermostat from an RF1A Receiver**

#### **On the TRFPi2 thermostat:**

1. Press the Connect button. The thermostat will begin to search through the RF channels.
2. Press and hold the standby button for 10 seconds. `AdL` & `AdH` will flash intermittently on the screen of the thermostat.
3. Press the `OK` button twice to complete the unpairing process.  
The thermostat TRFPi2 is now disconnected from the receiver RF1A.  
**Note:** RF Connect may remain on the screen for 1-2 minutes.


## FAQ

### Q: Do I need to carry out the RF connection process if I am installing a CombiPack2?

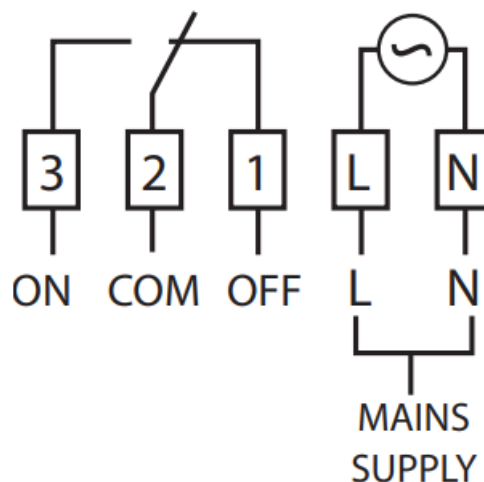
**A:** No, if you are installing a CombiPack2, the TRFPi2 thermostat and the RF1A receiver will have a pre-established RF connection, so it is not necessary to carry out the RF connection process.

**Important:** Keep this document Before operation, it is necessary to complete all required settings described in this section.

## 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 for RF1A



- If the mains voltage output is required, terminals L & 2 must be electrically linked.

## Mounting

- The RF1A receiver should be wall-mounted in an area within 20 meters distance of the wireless thermostat.
- The receiver must be mounted more than 1 meter away from metal objects as this will affect communication with the thermostat.
- The receiver should also be installed at least 1 meter 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

### Installation

Slacken the fastening screw on the bottom of the receiver with a Phillips 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.

### Button / LED description




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

### 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 authorized service staff are permitted to open the terminal box.
- Some parts carry mains voltage behind the cover. The terminal box must not be left unsupervised when open. (Prevent nonspecialists and especially children from gaining access to it.)
- Ensure that this wireless-enabled receiver is installed 1 meter from any metallic object, television, radio, or wireless internet transmitter.
- **Manual override:** This button will manually override the system.
- **Wireless connect indicator:** This LED will flash on receiving wireless signals. If it is constantly ON, the RF1A receiver has been disconnected from the wireless thermostat.

### Resetting the RF1A receiver


- Press the  RESET button located on the side of the receiver. Within 2 seconds, press the 'Connect' button. The RF1A receiver is now reset.

### To connect the TRFPi2 thermostat to an RF1A receiver



- Please note, If you are installing a CombiPack2 the TRFPi2 thermostat and the RF1A receiver will have a pre-established RF connection so it is not necessary to carry out the RF connection process below.

#### On the RF1A receiver:






- Press the  button. The red and green lights will begin to flash.

#### On the TRFPi2 thermostat:


- Press the   Connect on.
- The thermostat will begin to search through the RF channels.
- Once an RF connection has been established the thermostat will show 'r01' on the LCD screen.
- Press the 'OK' button to finish the process.
- The thermostat is now connected to the RF1A receiver.
- RF Connect' appears on the screen.

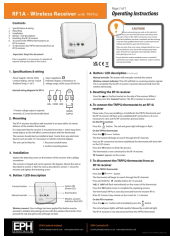
#### To disconnect the TRFPi2 thermostat from an RF1A receiver

#### On the TRFPi2 thermostat:

- Press the   Connect on.
- The thermostat will begin to search through the RF channels.
- Press and hold the  standby button for 10 seconds.
- AdL & 'AdH' will flash intermittently on the screen of the thermostat. Press the 'OK' button twice to complete the unpairing process.
- The thermostat TRFPi2 is now disconnected from the receiver RF1A.
- **Note:** RF Connect may remain on the screen for 1-2 minutes.

#### On the RF1A receiver:

- Press the  button on and immediately press the button.
  - The red and green lights will flash quickly followed by a solid red light.
  - The RF1A receiver is now disconnected from the TRFPi2 thermostat.
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### References

- [EPH Home Page - EPH Controls](#)
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- [User Manual](#)