CET B-RF

Wireless Hot Water Cylinder Thermostat Installation, Commissioning and User Instructions

Setting Dial

Danfois

LCD Display. During normal operation cylinder temperature is displayed. When setting dial is moved the display momentarily changes to show set temperature.



Installation Instructions

Product overview

The CET B-RF is a battery powered cylinder thermostat which measures cylinder temperature using a strap-on temperature sensor fitted to the cylinder wall and wired to the thermostat which is normally located adjacent to the cylinder. To avoid the need for wiring, communication between the thermostat and the boiler or zone valve is achieved using secure RF wireless communication. A receiver unit, type RX-1 is mounted adjacent to the boiler or the control valve and responds to commands issued by the wireless thermostat.

Installation

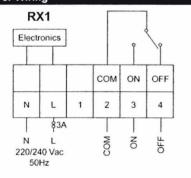
Thermostat

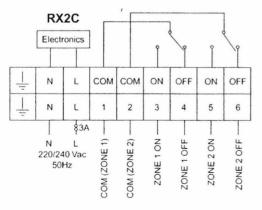
- The product should installed by a competent person. Installation must be in accordance with the current edition of the IEEE wiring regulations.
- 2. The clamp on sensor should be mounted onto the cylinder wall at a height equivalent to ½ the height of the cylinder. Care should be taken to remove any insulation material from the cylinder and to ensure that the copper surface of the cylinder is clean. See diagram opposite for details.
- Before attaching the sensor to the cylinder using the strap provided, a 2-core cable should be connected to the sensor to allow interconnection to the thermostat setting unit.
- Apply the contact paste provided to the part of the sensor in contact with the cylinder and clamp the sensor to the cylinder wall. A spacer piece is provided for use with cylinders having thick insulation.
- Mount the wallplate of the thermostat setting unit on to a wall adjacent to the cylinder and connect the cable from the sensor to terminals 2 & 3 of the wallplate. A wiring diagram is shown below.
- The thermostat setting unit can now be mounted onto the wallplate and secured using the two screws on the bottom of the wallplate.

RX1 Receiver unit

- The product should installed by a competent person. Installation must be in accordance with the current edition of the IEEE wiring regulations.
- Mount the RX-1 wallplate onto the wall, cable access must be from behind or below the wallplate. A typical wiring diagram showing the interconnections between time controls and zone valve is shown opposite.
- The RX-1 may now be mounted onto the wallplate and secured using the two screws on the bottom of the wallplate.

RX1 Receiver Wiring





Product specification

Thermostat:

Power supply:

Transmitter frequency: Transmitter range:

Temperature range:

Max. temp of thermostat:

Design standard: Dimensions, mm:

Control pollution: RX receiver unit: 2 x AA/LR6/MN1500 alkaline batteries 433.92MHz

30 metres line of sight

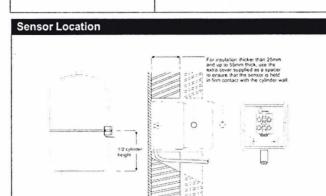
40 - 65°C 45°C

(W,H, D) 85 x 86 x 42

Degree 2

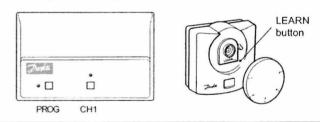
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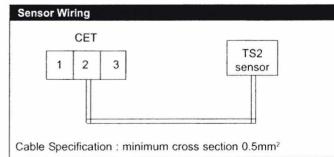
see instructions packed with receiver



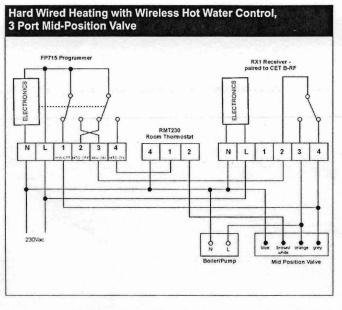
Pairing Thermostat to Receiver

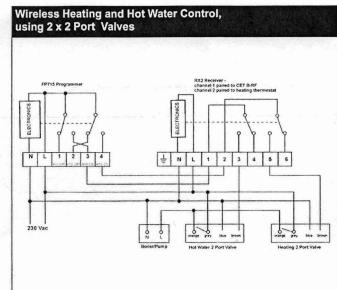
- Ensure that the power to the RX1 is turned on and that the time controls are calling.
- Turn the thermostat setting knob to setting 5.
- Remove the knob from the thermostat and press and hold for 3 seconds the "Learn" button which can be found beneath the setting knob. This forces the thermostat to transmit its unique identity for up to five minutes. Do not at this stage replace the setting knob.
- Move to the RX receiver and press and hold CH1 and PROG button until green LED flashes.
- The thermostat setting dial may now be replaced and the controls tested in the normal way to ensure that boiler, pump and associated control valve(s) operate in the correct sequence.
- Having tested the controls, the thermostat should be set to the required temperature, this can be read directly from the LCD display as the setting knob is moved.

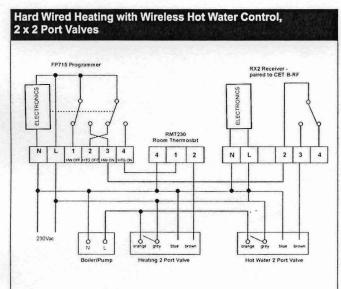


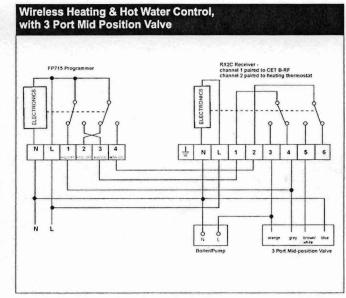


Important note: Please ensure that when positioning the thermostat setting unit that there are no large metal obstructions, ie cylinder or boiler case, sitting in between the thermostat and the RX receiver unit as these will block radio communication and prevent the thermostat from operating correctly.





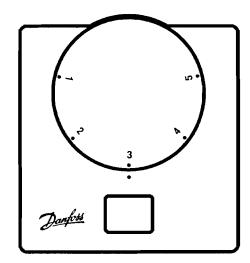




User Instructions

User Instructions

- To alter the temperature that the thermostat controls at simply turn
 the setting dial on the thermostat. As the setting dial is moved the
 small LCD display will show the selected temperature.
- Once the required temperature is set, the LCD display will show the temperature of the water in the cylinder close to the position where the sensor is located.
- A small "Flame " icon is lit in the display whenever the thermostat is calling for heat. Please note that the boiler will only run when both the thermostat and the time control are calling.
- 4. The CET B-RF is battery powered. Batteries will last in excess of two years. A "Battery" icon will flash in the display when batteries need to be changed. To change the batteries loosen the two screws on the base of the thermostat and lift thermostat off base plate. Batteries are located in the rear of the thermostat unit and should be replaced using two high quality AA size alkaline cells.





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