

## Datasheet

# CET 2000B-RF Wireless Electronic Cylinder Thermostat

### Features



The CET 2000B-RF is a battery powered RF cylinder thermostat which measures cylinder temperature using a strap-on cylinder temperature sensor. The sensor is fitted to the cylinder wall and wires directly to the thermostat, which is normally located adjacent to the cylinder.

The clamp-on sensor comes complete with a spacer piece to enable installation with most thicknesses of cylinder insulation (25-55mm).

A receiver unit is mounted next to the boiler or zone valve and responds to commands issued by the thermostat over secure wireless connection. This avoids the need for wiring between the thermostat and boiler or zone valve, reducing installation time and cabling.

This arrangement is perfectly suited for new installations where furnishings prohibit running recessed or surface mounted cabling, and in existing installations where the cylinder is being moved or replaced.

The CET2000B-RF includes a large easy to read LCD display which is backlit for viewing in dimly lit locations.

Hot water temperature adjustment is made by simple up/down buttons and the digital display allows accurate setting. In normal operation the display will show the cylinder temperature, when the buttons are pressed, the display changes and flashes the set temperature required.

A flame icon is displayed whenever the thermostat is calling for hot water demand and an aerial icon confirms that the thermostat is connected to the receiver.

The Thermostat can be placed in a standby mode where hot water isn't required for prolonged periods or where tampering is an issue the set temperature can be locked, both modes indicated by icons on the display.

The display also gives indication when the batteries need replacing and should there be an issue with the cylinder sensor error codes are shown.

## Thermostat Specifications

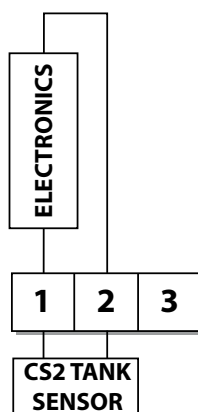
Wireless Cylinder Thermostat	CET 2000B-RF
Code no. (including RX1-S single channel receiver)	087N727900
Temperature range	40-65°C
Clamp-on temperature sensor	•
Operating frequency	433.92 MHz <1mW ERP
Maximum range	30 metres
Power supply	2 x AA alkaline batteries
Maximum ambient temperature	45°C
IP Rating	IP20
Dimensions, setting module (mm)	84 wide x 84 high x 35 deep
Dimensions, clamp-on sensor (mm) <sup>(2)</sup>	49 wide x 49 high x 45 (or 79) deep
<sup>(1)</sup> Ensure no large metal objects are between thermostat and receiver as these will interfere with radio signal. <sup>(2)</sup> 79mm depth is with spacer for use with high insulation cylinder.	

## Receiver Specifications

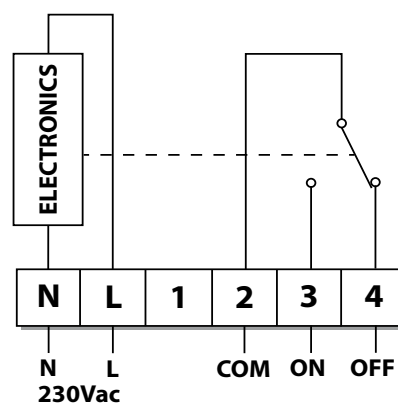
Receiver Features	RX1-S
Type	Single Channel Receiver
Power supply (receivers)	230 Vac, 50/60 Hz
Contact details	1 x SPDT
Output	Volt Free
Contact rating	3A (1) at 230 Vac
IP Rating	IP40
Dimensions (mm)	84 wide x 84 high x 28 deep

## Wiring Diagrams

CET 2000B-RF



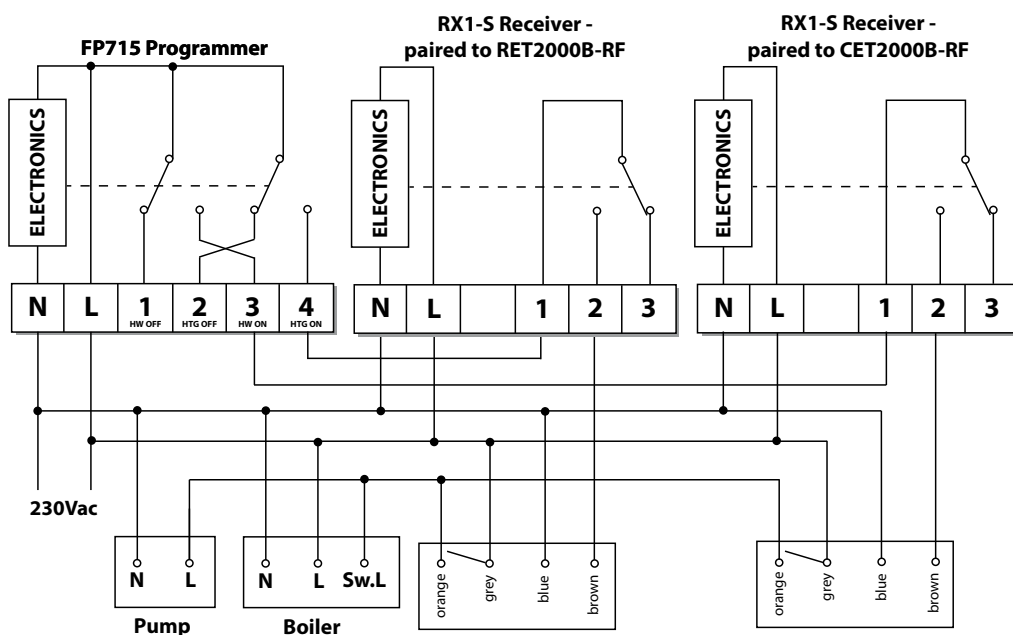
RX1-S



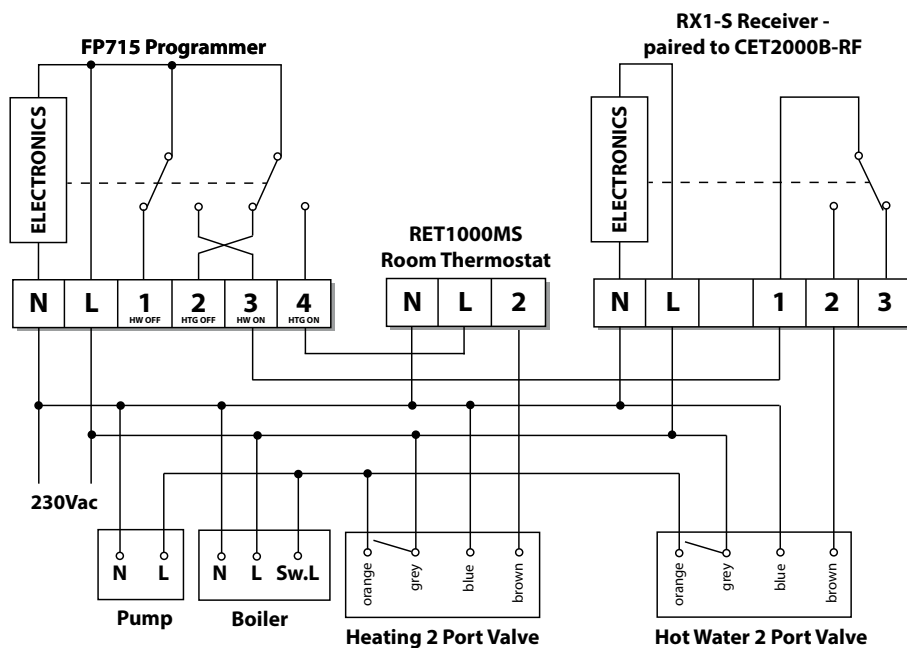
**Note:** For mains voltage applications link terminals L and 2.

Applications Examples

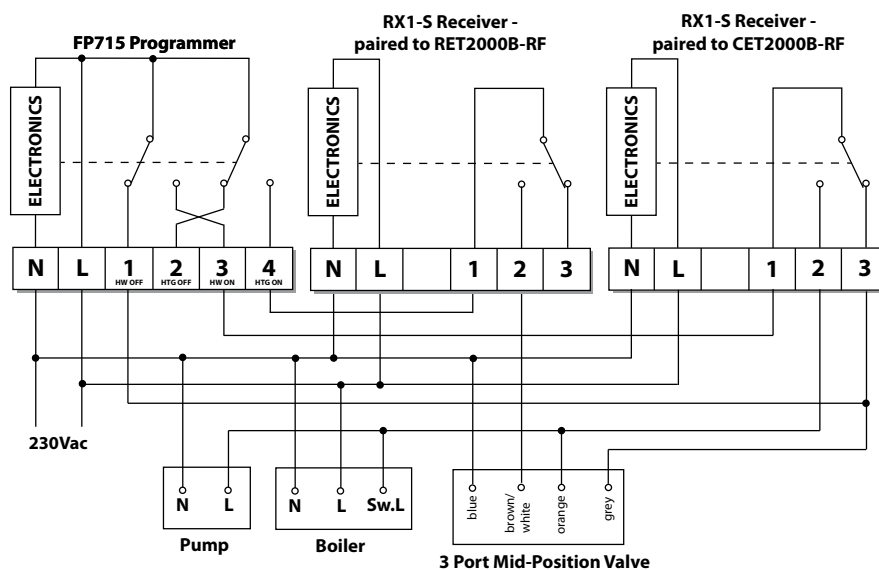
Wireless Heating and Hot Water Control, using 2 x 2 Port Valves



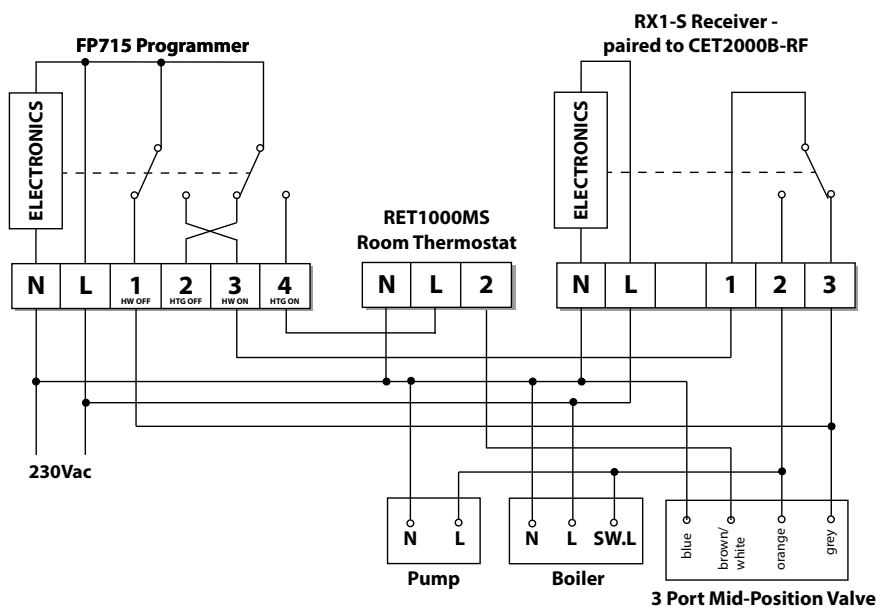
Hard Wired Heating with Wireless Hot Water Control, 2 x 2 Port Valves



**Wireless Heating and Hot Water Control, with 3 Port Mid Position Valve**



**Hard Wired Heating with Wireless Hot Water Control, 3 Port Mid-Position Valve**



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