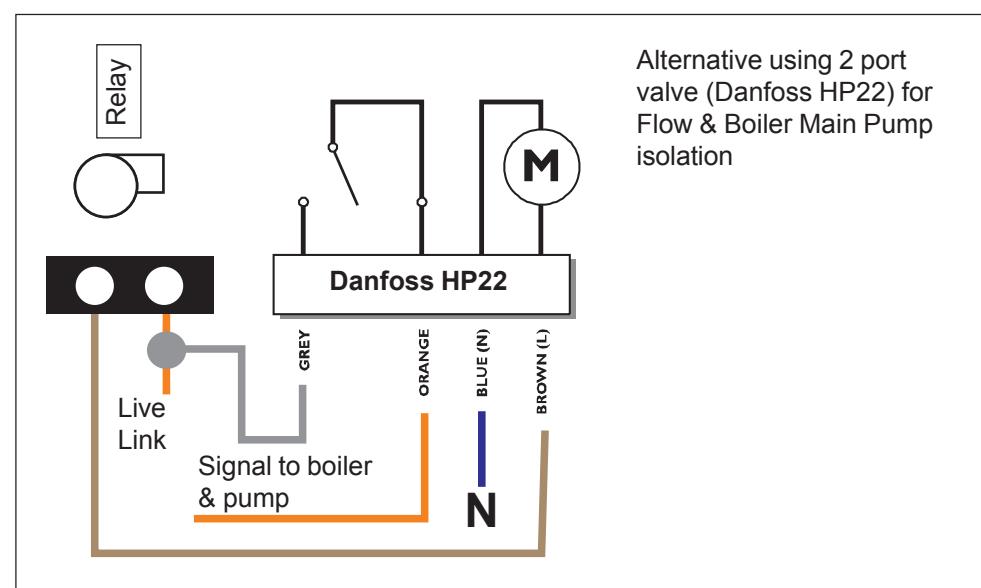
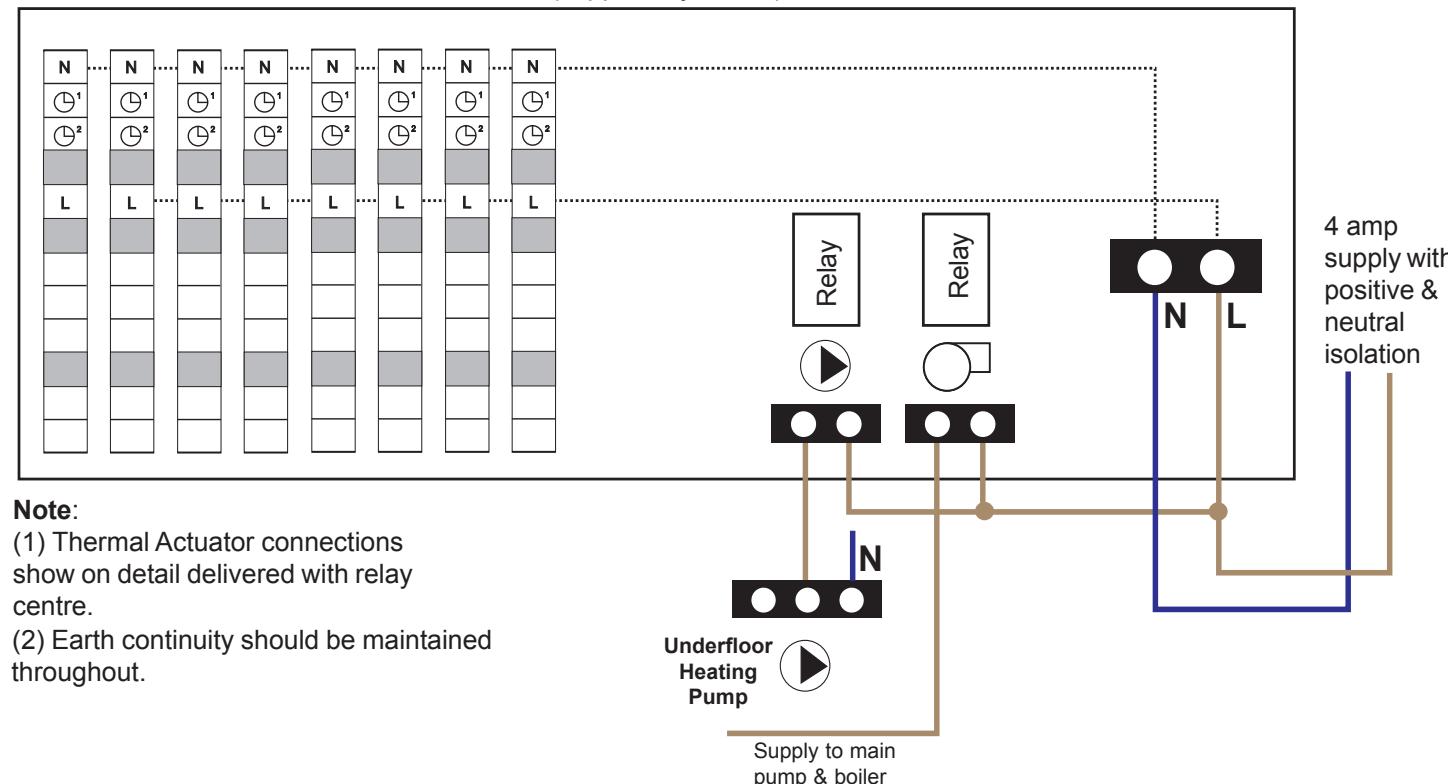


Connections for Underfloor Pump and Motorised Valve

Connection Block (supplied by others) for earth connection



Events

Clock On - no circuit to resistor in RET230T thermostat controls at set temperature

Power to Thermal Actuator

Underfloor Heating Pump Relay

Boiler Relay opens motorised valve calling for boiler and main system pump



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Underfloor Heating

The Underfloor Heating Control System with night set-back, or programmable room thermostats.

The System offers you:

Independent control of 2 zones, (eg: kitchen, utility, breakfast room and hall - zone 1; lounge and dining room - zone 2) with a 2 Channel Time Control

Night Set-back Room Thermostats for added economy and comfort.

Programmable Room Thermostats for added flexibility (in a study or dining room which usage may be different from the rest of the house). The programmable room thermostat can operate outside of the central time control settings.

FH-WC 230V
8 zone wiring centre for one or two independent time channels, with an opportunity to use programmable thermostats that will operate independently of central time control.



TP5000 programmable room thermostat giving 5/2 day control with up to 6 time and temperature changes per day, plus permanent set back function for holiday periods.



RMT230T night set-back thermostat - sets back the room temperature by 4°C during periods when the Time Control is Off. The RMT230T is electro-mechanical, with a separate wall plate, and does not have LEDs indicators.



RET230NSB night set-back thermostat sets the temperature back by 4°C from the set point during periods when the Time Control is Off.



The RET230NSB is an electronic thermostat with a separate wall plate and 2 LED indicators to help the engineer during commissioning and to keep the user informed during normal operation.

The green light is lit when the Time Control is On; the red light is lit when the thermostat is calling for heat. When the Time Control is Off, the left hand LED is lit orange showing the thermostat is in set-back mode.

It is easy to see how the LEDs will help during commissioning, and if the user experiences problems by asking which LED is lit may save time on unnecessary service calls.

TP7000A programmable room thermostat with 5/2 day or 7 day programming with up to 6 time and temperature changes per day, includes remote temperature sensing, BST to GMT time change, simple optimum start on the first switching period of each day, holiday mode preset for up to 99 days.



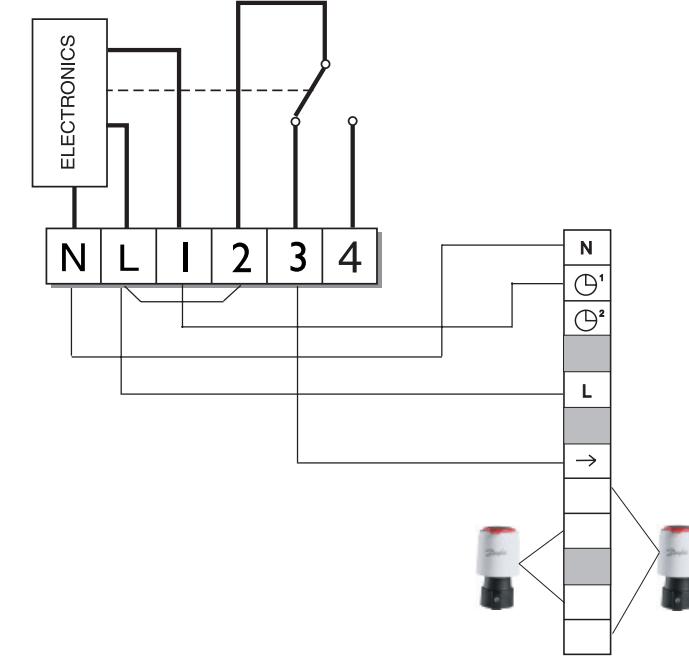
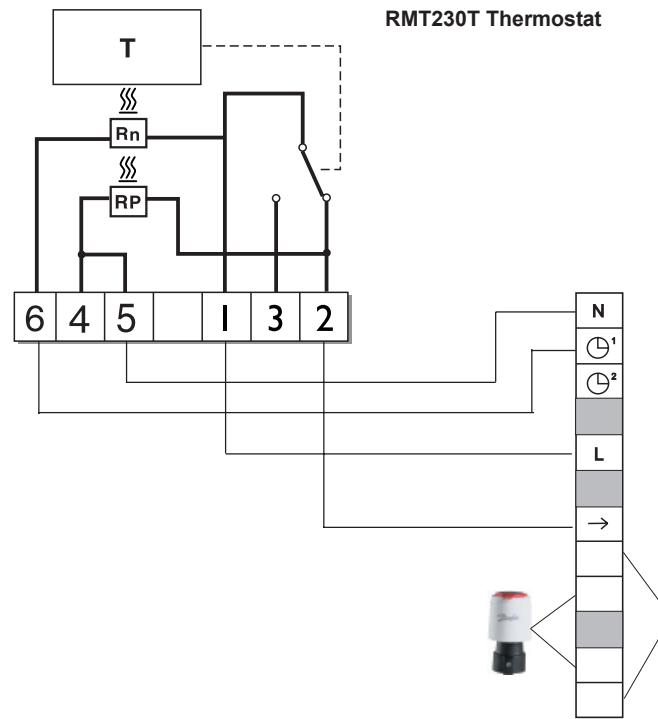
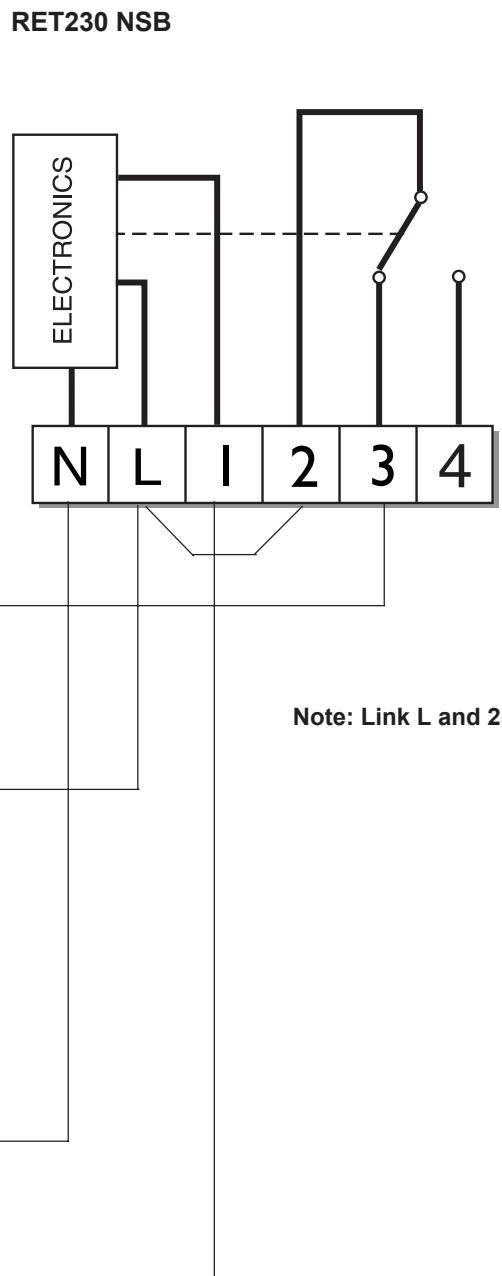
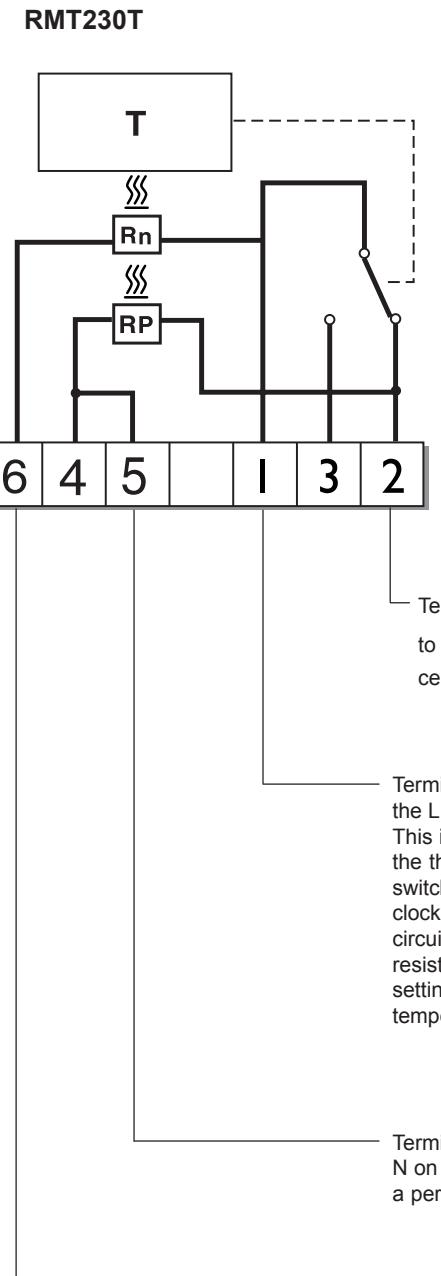
TS715 single channel time control with volt free switching with 5/2 or 7 day or 24 hour switching, 3 on/off periods per day, BST to GMT time change.



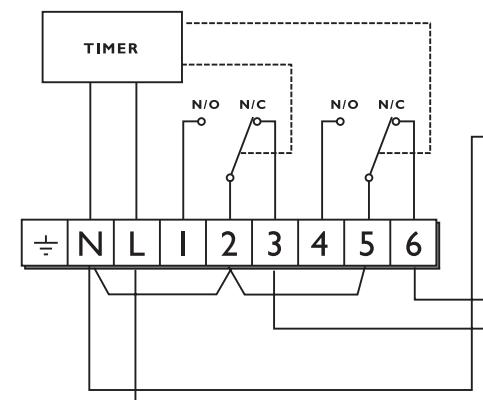
FP975 2H 2 channel independent time control with volt free switching with 5/2 or 7 day switching, 3 on/off periods per day, BST to GMT time change.



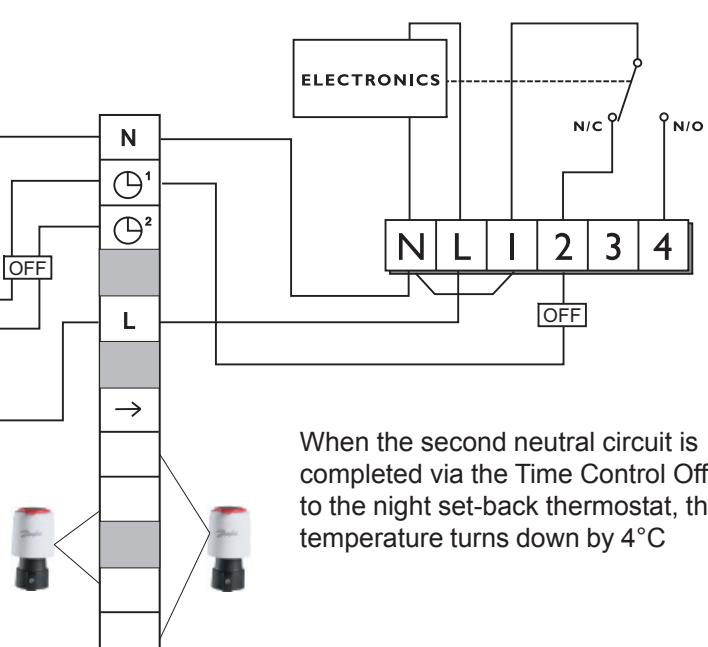
The operation of the night set-back thermostat is easy to understand and to wire. The diagram below will help you to understand the operation of this form of thermostat.



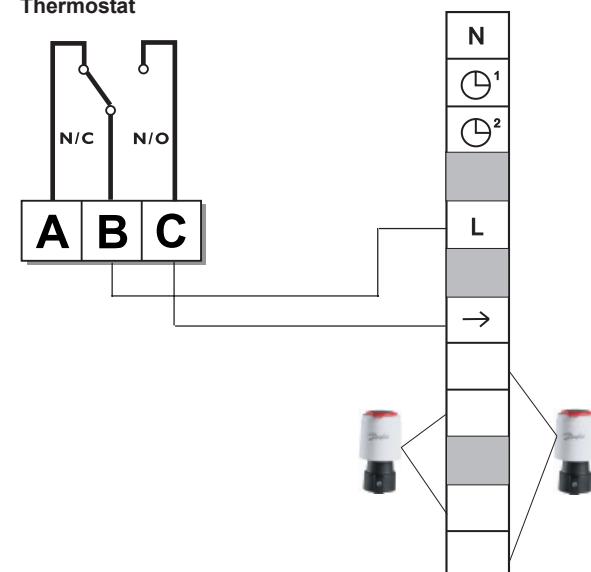
FP975-2H 2 Channel Time Control



TS715 1 Channel Time Control



TP5000 Programmable Room Thermostat



Principle and Wiring of Night Set-back Thermostats

The thermostat ensures that during the Occupied Period the property is maintained at the set temperature. The night set-back feature is for use during periods of unoccupancy, where the room temperature is set back by 4°C.

With modern, highly insulated properties this form of control is efficient as it never lets the living accommodation temperature fall so low to make the recovery time excessive.

The operation of the night set-back thermostat is simple and has been around in Europe and Scandinavia for over 35 years.

- the thermostat is permanently powered via a live from the relay box
- the OFF terminal on the time control gives a neutral signal to a small resistor in the NSB thermostat, this generates just enough heat to offset the room temperature by 4°C
- when the time control switches ON, the neutral circuit is broken and the thermostat returns to the temperature set point.