

Specification

Terminals: 23 way
 Voltage Rating: 230 V 50/60Hz
 Current Rating: 10A
 Max cable size: 1.5mm²
 Max. Ambient Temperature: 55°C
 Enclosure Rating: IP30
 Pollution Control Situation: Normal
 Dimensions: 170 mm wide
 130 mm high
 39 mm deep

Complies with BS6220

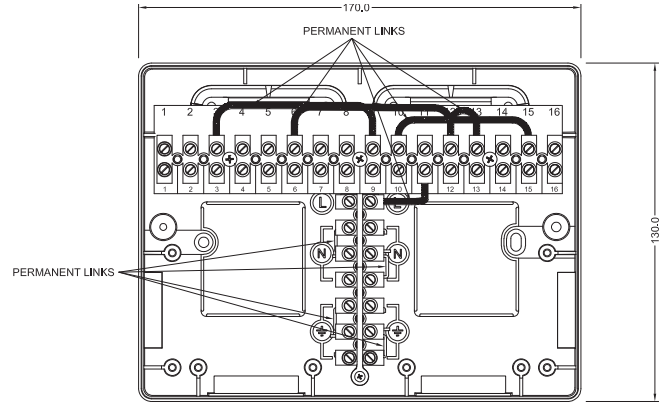
Movable Links

Preformed (2 off)



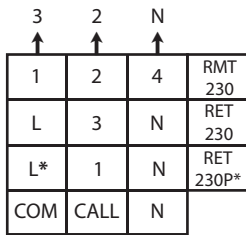
Straight Solid Core (1 off each)
 - 1.5mm² (BS6004),
 ends trimmed 7mm.

- 45mm
- 70mm
- 80mm
- 105mm



The Danfoss Randall 23-way WC4/B Wiring Centre, suited to most popular heating/hot water systems, provides a systemised and tidy approach to wiring, particularly in respect of cable links and terminal numbers. It has some fixed and some movable links and is designed to be wall mounted, with cable entry from either the rear or through knock-outs in the rear. The following wiring connection information covers most popular domestic heating control systems.

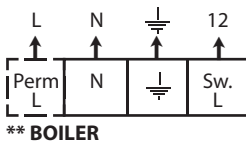
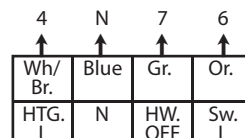
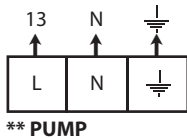
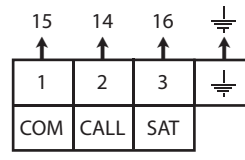
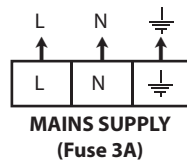
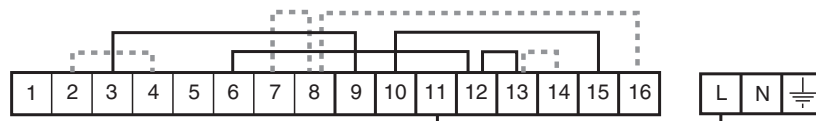
1. Fully Pumped System, 3-Port Mid-Position Valve.



ROOM THERMOSTAT

* Link terminals L and Com in the RET230P for correct operation. (See thermostat instructions for further information).

** Refer to Boiler wiring information for boilers with pump overrun.

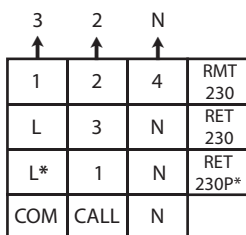


A. Permanent Links

B. Links to be made by installer

PROGRAMMER	L	N	L	OFF	ON	ON	LINKS
				WATER	HTG	HTG	
CP715 Si, FP715 Si & TP9000	-	N	L	1	3	4	-
SET3M, SET 3E & FP975	-	N	L	3	1	4	L, 2 & 5
SET2E	-	N	L	-	1	4	L-2, 1-5
102, 102E5, 102E7	-	N	L	-	1	2	L-3
4033	⌋	7	6	5	4	2	1-6
3060 & 3020P	⌋	7	6	-	4	2	-
TIMESWITCH WIRING CENTRE	N.B. WHEN USING UNITS BELOW LINK 11-9 ON						
103, 103E5, 103E7	-	N	L	-	1	-	L-3
TS715 Si	-	N	L	-	4	-	L-1
SET1E & TS975	-	N	L	-	4	-	L-5

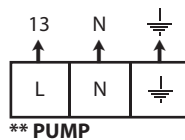
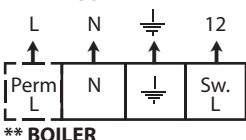
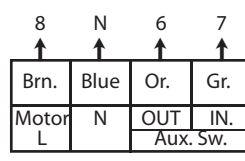
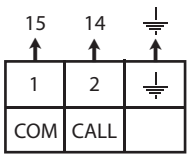
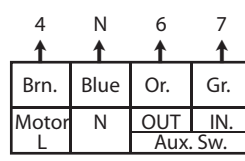
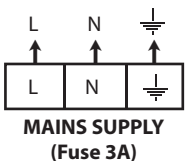
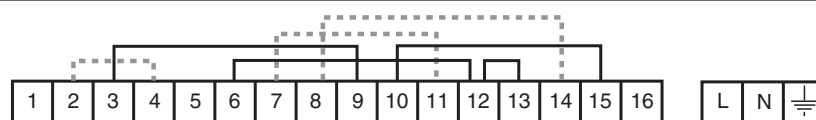
2. Fully Pumped System, 2 x 2-Port Spring Return Zone Valves.



ROOM THERMOSTAT

* Link terminals L and Com in the RET230P for correct operation. (See thermostat instructions for further information).

** Refer to Boiler wiring information for boilers with pump overrun.

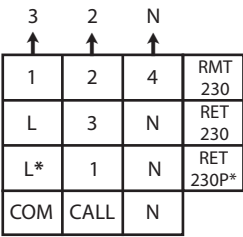


A. Permanent Links

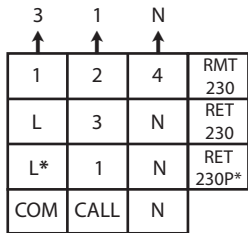
B. Links to be made by installer

PROGRAMMER	L	N	L	ON	ON	LINKS
				WATER	HTG	
CP715 Si, FP715 Si & TP9000	-	N	L	3	4	-
SET3M, SET 3E & FP975	-	N	L	1	4	L, 2 & 5
SET2E	-	N	L	1	4	L-2, 1-5
102, 102E5, 102E7	-	N	L	1	2	L-3
4033	⌋	7	6	4	2	1-6
3060 & 3020P	⌋	7	6	4	2	-
TIMESWITCH WIRING CENTRE	N.B. WHEN USING UNITS BELOW LINK 11-9 ON					
103, 103E5, 103E7	-	N	L	1	-	L-3
TS715 Si	-	N	L	4	-	L-1
SET1E & TS975	-	N	L	4	-	L-5

3. Fully Pumped System, 3 x 2-Port Spring Return Zone Valves.

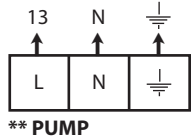
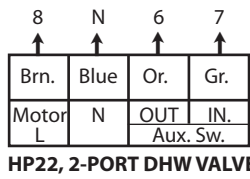
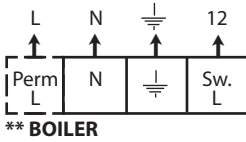
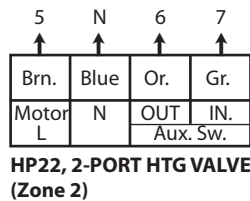
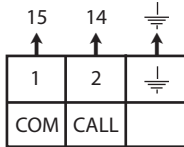
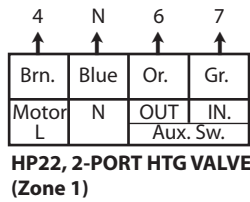
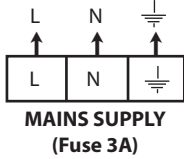
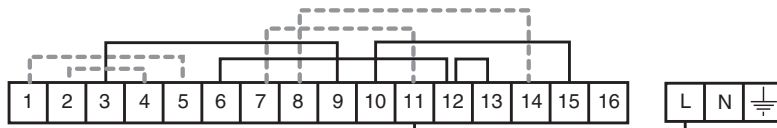


**ROOM THERMOSTAT
(Zone 1)**



**ROOM THERMOSTAT
(Zone 2)**

* Link terminals L and Com in the RET230P for correct operation. (See thermostat instructions for further information).

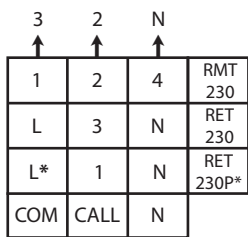


** Refer to Boiler wiring information for boilers with pump overrun.

A. Permanent Links
B. Links to be made by installer

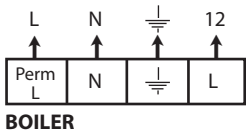
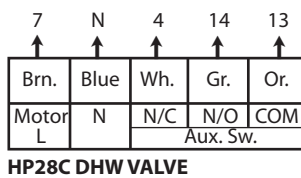
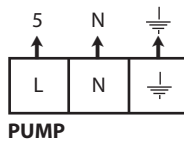
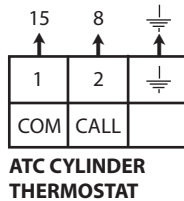
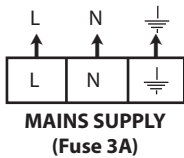
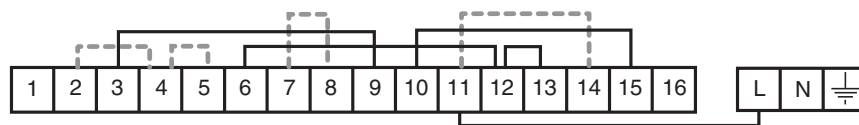
PROGRAMMER	⏏	N	L	ON	ON	LINKS
				WATER	HTG	
CP715 Si, FP715 Si & TP9000	-	N	L	3	4	-
SET3M, SET 3E & FP975	-	N	L	1	4	L, 2 & 5
SET2E	-	N	L	1	4	L-2, 1-5
102, 102E5, 102E7	-	N	L	1	2	L-3
4033	⏏	7	6	4	2	1-6
3060 & 3020P	⏏	7	6	4	2	-
TIMESWITCH WIRING CENTRE	N.B. WHEN USING UNITS BELOW LINK 11-9 ON					
103, 103E5, 103E7	-	N	L	1	-	L-3
TS715 Si	-	N	L	4	-	L-1
SET1E & TS975	-	N	L	4	-	L-5

4. Gravity DHW and Pumped Heating, one 2-Port Spring Return Zone Valve in DHW.



**ROOM THERMOSTAT
(Zone 1)**

* Link terminals L and Com in the RET230P for correct operation. (See thermostat instructions for further information).



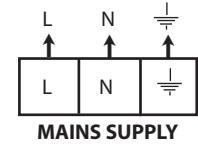
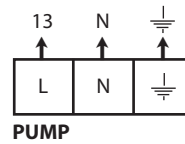
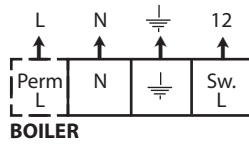
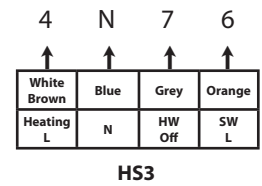
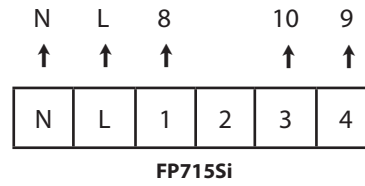
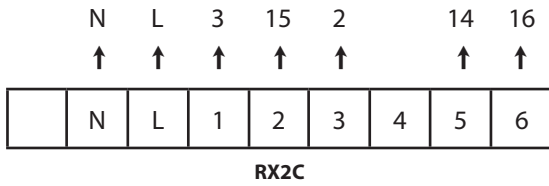
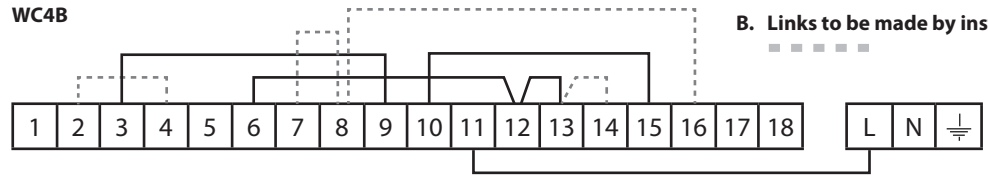
A. Permanent Links
B. Links to be made by installer

PROGRAMMER	⏏	N	L	ON	ON	LINKS
				WATER	HTG	
CP715 Si, FP715 Si & TP9000	-	N	L	3	4	-
SET3M, SET 3E & FP975	-	N	L	1	4	L, 2 & 5
SET2E	-	N	L	1	4	L-2, 1-5
102, 102E5, 102E7	-	N	L	1	2	L-3
4033	⏏	7	6	4	2	1-6
3060 & 3020P	⏏	7	6	4	2	-
TIMESWITCH WIRING CENTRE	N.B. WHEN USING UNITS BELOW LINK 11-9 ON					
103, 103E5, 103E7	-	N	L	1	-	L-3
TS715 Si	-	N	L	4	-	L-1
SET1E & TS975	-	N	L	4	-	L-5

**5. Fully Pumped System,
3-port mid-position
valve with 2-channel
programmer and
wireless dial setting
room and hot water
thermostat**

WC4B

- A. Permanent Links
- B. Links to be made by installer

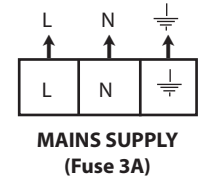
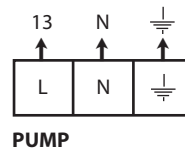
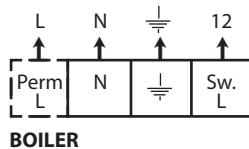
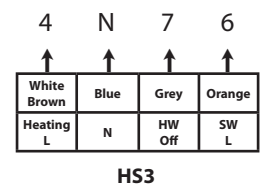
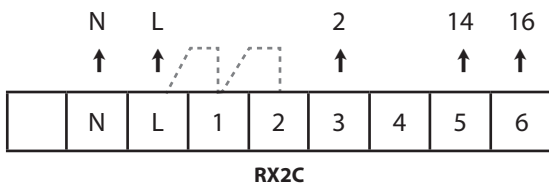
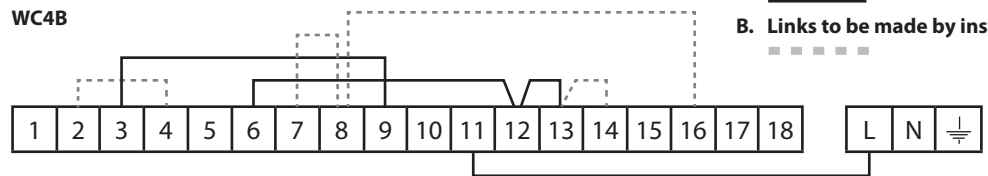


RX Channel Assignment			
Channel 1	Heating	Channel 2	Hot Water

**6. Fully Pumped System,
3-port mid-
position valve with
programmable
heating and hot water
thermostats.**

WC4B

- A. Permanent Links
- B. Links to be made by installer

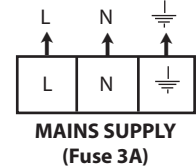
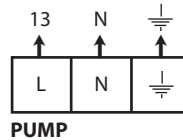
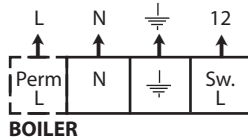
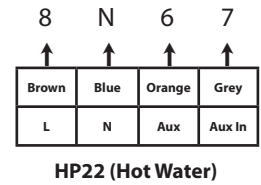
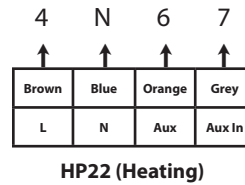
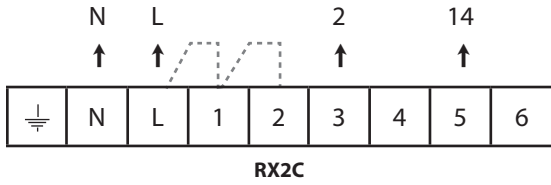
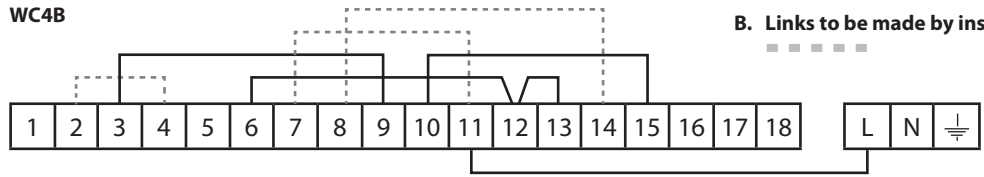


RX Channel Assignment			
Channel 1	Heating	Channel 2	Hot Water

**7. Fully Pumped System,
2 x 2-port zone valves
with programmable
heating and hot water
thermostats**

WC4B

- A. Permanent Links
- B. Links to be made by installer

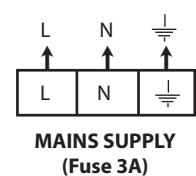
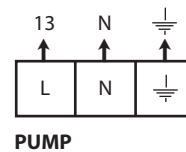
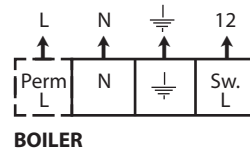
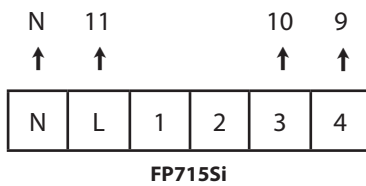
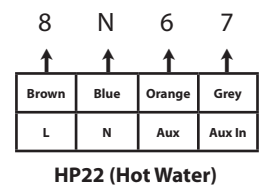
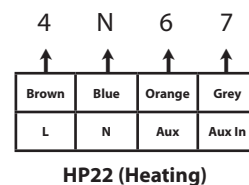
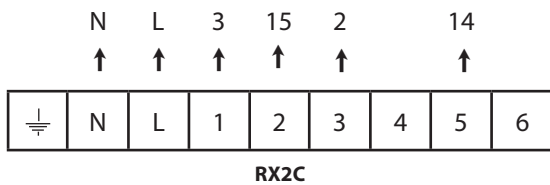
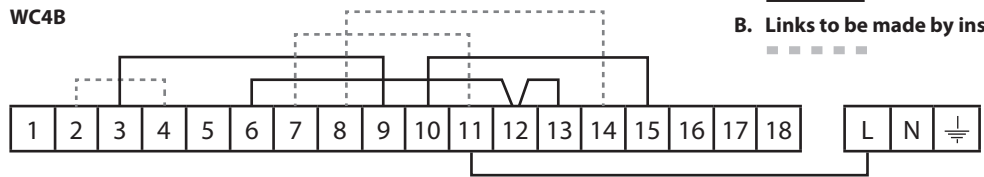


RX Channel Assignment			
Channel 1	Heating	Channel 2	Hot Water

**8. Fully Pumped System,
2 x 2-port zone valves
with 2-channel
programmer and
wireless dial setting
room and hot water
thermostats**

WC4B

- A. Permanent Links
- B. Links to be made by installer



RX Channel Assignment			
Channel 1	Heating	Channel 2	Hot Water



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