

INSTALLER HANDBOOK

Summer 2020

- Product ranges
- Wiring diagrams
- Smart controls



Life Is On

Drayton
by Schneider Electric

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Full listings and part numbers can be found in our Product Catalogue, downloadable from www.draytoncontrols.co.uk



The Drayton Community

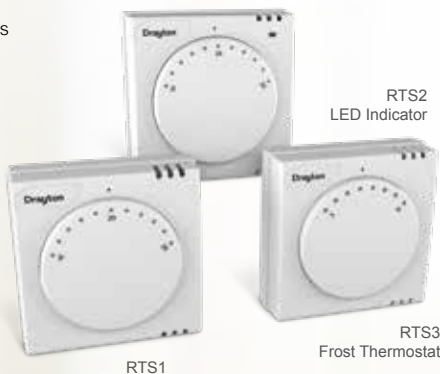
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RTS

Room Thermostat Range

Features:

- Range limiting stops
- Set point locking
- Surface or conduit box mounting
- Double insulated



Product	Part No.
RTS1 SPST contacts	24001
RTS2 SPST with LED indicator	24002
RTS3 SPST frost thermostat	24003
RTS4 SPDT volt free contacts	24004
RTS9 SPDT volt free + LED	24030

CombiStat Room Thermostat

Features:

- 2 or 3 wire
- Switch rating up to 6A
- Range limiting stops
- Set point locking
- Surface or conduit box mounting
- Double insulated



Product	Part No.
RTS8 CombiStat	24028

Digistat+/-RF

Wired and Wireless Room Thermostats



Features:

- Conventional dial adjustment
- On/off load compensation
- 1°C setting steps
- Tactile & audible feedback via click of the dial
- Visual feedback via digital display
- Set-back feature
- Min/Max temperature setting
- Tamper-proof (set Min/Max the same)
- Battery powered
- Digital display situated above dial for ease of reading

Wireless systems are a cost effective and convenient solution to problems encountered during the installation of a standard wired thermostat.

Product	Part No.
Digistat+	30002
Digistat+RF room thermostat & SCR	RF601
Digistat+RF room thermostat spare	31003
Digistat+ SCR spare	22149

Digistat+1/+1RF

Wired and Wireless Room Thermostats



Features:

- Easy to use - only 4 buttons
- On/off load compensation
- Visual feedback via digital display
- Comfort feature
- Set-back feature
- Min/Max temperature setting
- Tamper-proof (set Min/Max the same)
- Battery powered (Digistat+1)
- Part L compliant (Part J in Scotland)

Consider the benefits of a wireless thermostat:

- No disruption to decor
 - No surface wiring
 - Positioning not restricted by cable runs

Product	Part No.
Digistat+1 (Battery)	22192
Digistat+1 (Mains)	22193
Digistat+1RF room thermostat & SCR	RF710
Digistat+1RF room thermostat spare	22190
Digistat+ SCR spare	22149

Digistat+2/+3/+2RF/+3RF/Si

Wired and Wireless Programmable Room Thermostats

(with Service Interval variants)



Features:

- On/off load compensation
- Easy to programme using only 4 buttons
 - Pre-set clock with automatic summer, winter time change
 - Schedule, time & date never need re-entering in the event of power loss
- 3 built-in standard pre-defined programmes
- Suitable for combi boilers, electric heat, hydronic under-floor and zoning (Digistat+2 & Digistat+3)

New Si features:

- Flexible service interval mode
- Adjustable warning and service period
- Visual indication on LCD
- Selectable boost/audible alarm
- Reset by installer 4 digit code

Product	Part No.	Si Part No.
Digistat+3 (Battery) 7 day / 5-2 day	22083	22104
Digistat+2 (Battery) 24Hr	22084	22102
Digistat+3 (Mains) 7 day / 5-2 day	22087	22105
Digistat+2 (Mains) 24Hr	22088	22103
Digistat+2RF (24hour) wireless system	RF700	RF703
Digistat+3RF (5-2day/7day) wireless system	RF701	RF704
Digistat+2RF (transmitter only) spare	22090	22111
Digistat+3RF (transmitter only) spare	22092	22110
Digistat+ SCR spare	22149	22149

LP Clip-in Controls

For Worcester Boilers

Features:

- Clip-in controls
- Suitable for Worcester boilers
- 4 pack options
- Simple wireless installation
- Wireless receiver built into the LP devices
- Signal strength indicator
- On/off load compensation
- 7 day programmes
- 3 on/off periods per day
- Automatic summer/winter time updates
- Pre-programmed on/off periods
- Dedicated advance buttons
- 12 or 24 hour back-lit digital display
- Holiday function
- Pre-wired with PCB connector



LP20RF & Digistat+RF

Product	Part No.	Replaces Worcester product
LP20 Dual Channel Programmer	25039DR	7 716 192 038
LP10RF Single Channel Programmer & Digistat +2RF	RF560DR	7 716 192 052
LP10RF Single Channel Programmer spare	22589DR	8 716 106 667 0
Digistat+2RF thermostat spare	22090	-
LP10RF Single Channel Programmer & Digistat+3RF	RF561DR	7 716 192 053
LP10RF Single Channel Programmer spare	22589DR	8 716 106 667 0
Digistat+3RF thermostat spare	22092	-
LP20RF Dual Channel Programmer & Digistat+RF	RF562DR	7 716 192 054
LP20RF Dual Channel Programmer spare	22590DR	8 716 106 669 0
Digistat+RF thermostat spare	31003	-

What makes Wiser wiser?

Simplicity
Standard wallplate,
wireless devices



Flexibility
Up to 3 channels,
16 rooms, 32 devices



Multi-zoning
Build the perfect system by
adding radiator thermostats



App Control
Easy to use app enabling
control from anywhere



Eco Mode
Combines weather
compensation & optimum
stop for maximum savings



Comfort Mode
Uses optimum start for
maximum comfort



Away Mode
Activate Away Mode to immediately
reduce set points



Heat Report
View and compare temperatures
across single or multiple rooms



OpenTherm®
Digital boiler interface enabling
more efficient control



Geofencing
Enhanced control with
geofencing through IFTTT



BOILER PLUS

works with the
Google Assistant

amazon alexa

IFTTT



Wiser™

Set different
temperatures in
selected rooms

Wiser Options

Wiser Thermostat Kits

Enable heating control via the Wiser Heat app

- One channel for combi boilers
- Two channel for conventional boilers
- Three channel for systems with two heating zones plus hot water



Wiser Multi-zone Kits

Come with two radiator thermostats to start zoning your system; control via the Wiser Heat app

- One channel for combi boilers
- Two channel for conventional boilers



Add additional single radiator thermostats to any of the Wiser kits to create more zones and benefit from maximum comfort and energy saving.

Set schedules for home appliances from the Wiser Heat app, this smart plug can be controlled from your phone or by using voice activation with the Google Assistant and Amazon Alexa. The built-in range extender also enables connectivity to devices sited further away from the Heat Hub



Product	Part No.
Wiser Thermostat Kit 1	WT714R9K0902
Wiser Thermostat Kit 2	WT724R9K0902
Wiser Thermostat Kit 3	WT734R9K0902
Wiser Multi-zone Kit 1	WV714R9K0902
Wiser Multi-zone Kit 2	WV724R9K0902
Wiser Radiator Thermostat	WV704R0A0902
Wiser Room Thermostat	WN704R0S0902
Wiser Plug	WB704H1A0902

Lifestyle LP and LPSi

Electronic Timeswitches & Programmers

Features:

- Pre-set clock with automatic summer, winter time change
 - Schedule, time & date never need re-entering in the event of power loss
- 3 timing periods per day
- Programme advance buttons, with LCD indication
- Boost, giving 1, 2 or 3 hours with LCD indication
- All programmers suitable for fully pumped or gravity heating systems
- Timeswitches are ideal for combination boilers and control of additional zones etc. (voltage free contacts)
- Industry standard wallplate



LPSi features a service interrupter to alert householders when their boiler service is due. Thirty days before the boiler is due to be serviced the LPSi enters a warning period. During this time, the backlit display flashes providing a visual warning and the resident can read when the service is due on the display.

Product	Timing Periods	Part No.
LP111 Timeswitch	24 hour	25477
LP711 Timeswitch	7 day	25478
LP811 Timeswitch	Universal Timeswitch (24hr, 5day/2day, 7day)	25463
LP112 Programmer	24 hour (common timings for heating & hot water)	25473
LP241 Programmer	24 hour (separate timings for heating & hot water)	25474
LP522 Programmer	5 day/2 day (separate timings for heating & hot water)	25475
LP722 Programmer	7 day (separate timings for heating & hot water)	25476
LP822 Programmer	Universal Programmer (24hr, 5day/2day, 7day)	25464
LPSi Reset Unit		25489
LP241Si Programmer	24 hour (separate timings for heating & hot water)	25490
LP522Si Programmer	5 day/2 day (separate timings for heating & hot water)	25491
LP722Si Programmer	7 day (separate timings for heating & hot water)	25492
LP111Si Timeswitch	24 hour	25493
LP711Si Timeswitch	7 day	25494

SM1 & SM2

Electro-Mechanical Timeswitches & Programmers

Features:

- Single and dual channel
- Advance feature
- LED on indication
- Intuitive time setting for two ON/OFF functions per day
- Suitable for gravity and pumped systems
- All day option
- Industry standard wallplate



Product	Part No.
SM1	29205
SM2	29206

Motorised Valves

Two Port & Mid Position Valves



Product	Part No.
22mm 2 Port zone valve - 5-wire SPST switch	27100
22mm Mid-position valve - 5-wire SPST switch	27101
28mm 2 Port zone valve - 6 wire SPDT switch	27205
28mm Mid-position valve - 6 wire SPDT switch	27206
5 Wire Zone valve 230V actuator - SPST switch	27650
6 Wire Zone valve 230V actuator - SPDT switch	27653
Synchronous motor pack 230V	27011
Synchronous motor pack 24V	06170002001

For other variants see full Drayton catalogue

RT414 & NEW RT212

Thermostatic Radiator Valves

The 15mm angled valve can be mounted vertically or horizontally on flow or return.

RT414

Key Features:

- Accurate liquid-filled sensor
- Stylish head design
- Non-stick valve internals
- Flow rate adjustment
- Reverse-flow angled valve
- Chrome finish



Product	Part No.
RT414 with 15mm angle valve	10 10 015
RT414 with 15mm straight valve	10 10 115
RT414 with 15mm angle valve & lockshield	10 10 260
RT414 with 15mm angle DOTP lockshield	10 10 264

NEW RT212

Key Features:

- Entry-level model
- Accurate liquid-filled sensor
- Chrome valve



Product	Part No.
RT212 with 15mm angle valve	08 09 015
RT212 with 15mm straight valve	08 09 115
RT212 with 15mm angle & lockshield	08 09 260
RT212 with 15mm angle & DOTP lockshield	08 09 264
RT212 with 10mm angle & lockshield	08 09 273

Chrome accessories to match TRV4, RT414 & RT212

Product	Part No.
15mm angle lockshield with white cap	07 05 900
10mm push-fit elbow	07 05 904

TRV4

Thermostatic Radiator Valve

Features:

- Classic & White awarded Class I rating for energy efficiency
- Contemporary slim-line design
- Ultra sensitive liquid-filled sensor
- Easy to clean smooth surfaces
- Half/full click stop settings
- Frost protection position
- Four stylish options: Classic, White, Chrome and Anthracite
- Complete with chrome-plated valves
- Non-stick valve internals
- Pre-setting as standard
- Double gland seal
- Flow rate adjustment



Product	Part No.
TRV4 White	
With 15mm angle valve	07 07 015
With 15mm straight valve	07 07 115
With 15mm angle valve and chrome lockshield	07 07 260
TRV4 Classic	
With 15mm angle valve	07 05 150
With 15mm straight valve	07 05 151
With 15mm angle valve and chrome lockshield	07 05 180
TRV4 Chrome	
With 15mm angle valve	07 05 150C
With 15mm straight valve	07 05 151C
With 15mm angle valve and chrome lockshield	07 05 174
TRV4 Anthracite	
With 15mm angle valve and chrome lockshield	07 05 210
With 15mm straight valve and chrome lockshield	07 05 211

DRAYTON BALANCING KEY

Did you know, you can use this handy tool to balance the system without draining it down? So it's ideal for maintenance. Get a pack including gland seals at your merchant.

Part No 07 35 009



HTS3

Cylinder Thermostat

- Features:**
- Set point recommended 60°C to 65°C
 - Positive On/Off for test purposes
 - Tamper resistant
 - Double insulated

Product	Part No.
HTS3	13007



Digistat+ CRF

Wireless Cylinder Thermostat

- Features:**
- Conventional dial adjustment
 - 5°C setting steps
 - Min/Max temperature setting
 - Battery powered

Product	Part No.
Digistat+CRF cylinder thermostat & SCR & sensor	13616
Digistat+CRF SCR receiver spare	22598
Digistat+CRF transmitter spare	13618
Digistat+CRF sensor spare	13619



PTS1

Pipe Thermostats

- Features:**
- Frost protection solution when used in conjunction with the RTS3 air frost thermostat
 - Changeover contacts
 - Lockable setting knob
 - High or low limit applications

Product	Part No.
PTS1	03 01 260



Control Packs



Biflo Control Packs

Part No.	Programmer	Room Stat	Cylinder Stat	Valve	Wiring Centre	ErP rating
PBBE66	LP241	RTS1	HTS3	22mm Mid Position	LWC1	1%
PBBE66S	LP241Si	RTS1	HTS3	22mm Mid Position	LWC1	1%
PBBE669S	LP241Si	RTS9	HTS3	22mm Mid Position	LWC1	1%
PBBE68	LP241	RTS1	HTS3	22mm Mid Position	LWC3	1%
PBBE86	LP522	RTS1	HTS3	22mm Mid Position	LWC1	1%
PBBE86S	LP522Si	RTS1	HTS3	22mm Mid Position	LWC1	1%
PBBE869S	LP522Si	RTS9	HTS3	22mm Mid Position	LWC1	1%
PBBE88	LP522	RTS1	HTS3	22mm Mid Position	LWC3	1%
PBBE96	LP722	RTS1	HTS3	22mm Mid Position	LWC1	1%
PBBE969S	LP722Si	RTS9	HTS3	22mm Mid Position	LWC1	1%
PBBE98	LP722	RTS1	HTS3	22mm Mid Position	LWC3	1%
SMBE362	SM2	RTS1	HTS3	22mm Mid Position	LWC1	1%
SMBE382	SM2	RTS1	HTS3	22mm Mid Position	LWC3	1%

Twinspace Control Packs

Part No.	Programmer	Room Stat	Cylinder Stat	Valve	Wiring Centre	ErP rating
PBTE66	LP241	RTS1	HTS3	2 x 22mm 2-Port	LWC1	1%
PBTE68	LP241	RTS1	HTS3	2 x 22mm 2-Port	LWC3	1%
PBTE86	LP522	RTS1	HTS3	2 x 22mm 2-Port	LWC1	1%
PBTE88	LP522	RTS1	HTS3	2 x 22mm 2-Port	LWC3	1%
PBTE96	LP722	RTS1	HTS3	2 x 22mm 2-Port	LWC1	1%
PBTE98	LP722	RTS1	HTS3	2 x 22mm 2-Port	LWC3	1%
SMTE362	SM2	RTS1	HTS3	2 x 22mm 2-Port	LWC1	1%

Unvented Control Packs

Part No.	Programmer	Room Stat	Cylinder Stat	Valve	Wiring Centre	ErP rating
UWH62	LP241	RTS1	-	22mm 2-Port	LWC1	1%
UWH72	LP112	RTS1	-	22mm 2-Port	LWC1	1%
UWH82	LP522	RTS1	-	22mm 2-Port	LWC1	1%
UWH92	LP722	RTS1	-	22mm 2-Port	LWC1	1%

Frost Protection Pack

Part No.	Room Stat	Pipe Stat
FPP1	RTS3	PTS1

New Build Packs

Part No.	Thermostat	Valve	Programmer	Wiring Centre	ErP rating
PBTE110	2x RTS1	2x 22mm 2-Port	-	LWC3	1%
PBTE112	2x Digistat+3 mains	2x 22mm 2-Port	-	LWC3	2%
PBTE410	2x RTS1	2x 22mm 2-Port	LP711	LWC3	1%
PBTE412	2x Digistat+3 mains	2x 22mm 2-Port	LP711	LWC3	2%
PBTE413	2x Digistat+3 battery	2x 22mm 2-Port	LP711	LWC3	2%
PBTE910	2x RTS1	2x 22mm 2-Port	LP722	LWC3	1%

***For 28mm versions, add B to the end of the part number.**

Dual Channel Programmer Terminal Comparisons

Make	Model	Earth	Neutral	Live	H/W off	C/H off	H/W on	C/H on
Current Models								
Drayton	Wiser Thermostat Kit 2, Multizone Kit 2		N	L	1	2	3	4
Drayton Lifestyle	LP112, LP241, LP522, LP722, LP241Si, LP522Si, LP722Si		N	L	1	2	3	4
Drayton	SM2		N	L	1	2	3	4
Discontinued / Competitors' Models								
Drayton	miGenie Wish 2		N	L	1	2	3	4
	MiTime MT721R, MiTime RF Pack 2 & Pack 3		N	L	1	2	3	4
	Tempus 3, 4, 6, 7 (Old models), Tempus 6, 7		N	L	1	2	3	4
Switchmaster	400, 600 (No connection to terminal 4 on 600)		N	L		4	3	1
Switchmaster	805, 900, 900i		N	L	4	2	3	1
ACL	MP (Towerchron)		2	1				
ACL	FP (Towerchron)		2	1	8	11	6	10
British Gas	EMP2, UP1, UP2		N	L	1	2	3	4
Danfoss	CP15, CP715, FP15, FP715 (Mk18), CP715 Si, FP715 Si		N	L	1	2	3	4
	3020P, 3060	E	7	6			4	2
	4033 (link 1-6)	E	7	6	5	3	4	2
	102, 102E, 102E5, 102E7, (link 6-3)	E	5	6			1	2
	701 (link L-5 and 5-6)	E	N	L			3	1
	702 (link L-5 and 5-6)	E	N	L	4	2	3	1
	922, 972 (link L-2 and 2-5)	E	N	L	1	4	3	6
Honeywell	SET2, SET2E, SET3E, SET3M, FP975, SET5 (link L-2 and 2-5)	E	N	L	3	6	1	4
	ST 699/799 (link L-5 and 5-8)		N	L	7	4	6	3
	ST 6200, ST 6300, ST 6400, ST 6450, ST6400S, ST9400A/C, ST9400S, ST9500C, Y9420H RF ² Pack 2, Y9420S RF ² Pack 3, Y9520Z RF ² Pack 5		N	L	1	2	3	4
	ST 7100 (link L-3 and 3-6)		N	L	7	4	8	5
Horstmann	525, 527, 425 Diadem, H21, H27, H121, Tiara, (link L-2 and 2-5), Channelplus H21XL, H27XL, H27ZXL	E	N	L	3	6	1	4
	Centaur Plus C21, C27, C121 & C127		N	L	1	2	3	4
Myson	Microtimer (link L-5 and 5-8)		N	L	7	4	6	3
	MEP2C		N	L	1	2	3	4
Potterton Myson	All EP2000's, EP3000's, EP6000's, (link L-5 and N-N)		N	L	1	2	3	4
	Mini Minder		N	L	1	2	3	4
Siemens / Landis & Staefa	RWB2, RWB2E, 20, 40, 102, 200, 252 & 270, RWB9, RWB29		N	L	1	2	3	4
Sunvic	Select 207, SunPro2000		N	L	1	2	3	4
	SP50, SP100 (link L-3)		N	L	1	4	2	5
Salus	EP200, SP220		N	L	1	2	3	4
Grasslin Towerchron	DP 72, QE2		N	L	1	2	3	4
Sangamo	M5, (Link 1-6)		N	L			1	8

Multi Channel Programmer Terminal Comparisons

Make	Model	Earth	Neutral	Live	Ch1 on	Ch2 on	Ch3 on	Ch4 on
Current Models								
Drayton	Wiser Thermostat Kit 3		N	L	1	2	3	4
Discontinued / Competitors' Models								
Drayton	miGenie Wish 3		N	L	1	2	3	4
	MiTime MT742R, MiTime RF Pack 4 & Pack 5		N	L	1	2	3	4
Horstmann	H47XL	E	N	L	1	3	4	6
Horstmann	H37VXL, H37XL	E	N	L	1	3	5	
Sunvic	Select 307 XLS		N	L	3	4	5	

Single Channel Timeswitch Terminal Comparisons

Make	Model	Earth	Neutral	Live	Common	On	Off	Spare
Current Models								
Drayton	Wiser Thermostat Kit 1		N	L	1	2	3	4
	Wiser Multizone Kit 1		N	L	1	2	3	4
Drayton Lifestyle	LP111, LP711, LP111Si, LP711Si		N	L	1	3	2	4
Drayton	SM1		N	L	1	3	2	4
Discontinued / Competitors' Models								
Drayton	miGenie Wish 1		N	L	1	3	2	4
Drayton	MiTime MT711R, MiTime RF Pack 1		N	L	1	3	2	4
Drayton	Tempus 1 and 2		N	L	1	3	2	4
Drayton	Tempus 1 and 2 (Old models)		N	L	1	2	3	4
Switchmaster	300, 980		N	L	4	1		
ACL	TC (Towerchron)		2	1	4	7		
British Gas	EMT2, UT1, UT2		N	L	1	3	2	4
Danfoss	TS15, 75 (Mk18)	E	N	L	1	4	2	5/6
	TS715, TS715 Si		N	L	1	4	2	3
	TS975	E	N	L	5	4	6	1,2,3
	SET1, SET1E	E	N	L	5	4	6	
	SET4	E	N	L	5	4	6	
	103, 103E, 103E5, 103E7	4	5	6	3	1		2
Honeywell	911, 971	E	N	L	5	6	4	2
	ST 6100A, ST 6100C, ST6100S, ST9100A/C, ST9100S, Y9120H RF ² Pack 1, Y9120W RF ² Pack 4		N	L	1	4	2	
Horstmann	ST 7000B		N	L	1	2	3	4
	Centaur SC1, SC7			L		3	2	
	Channelplus H17XL, H11XL	E	N	L		4	6	
	Centaur Plus C11, C17, C17-ZW		N	L	2	4	3	
	Emerald 423, Pearl Auto		N	L	2	4	3	
	517, Coronet, H11, H17	E	N	L	3	4		
Myson	Microtimer (link L-5 and 5-8)		E	N	L	5	4	6
	MEP1C		N	L	1	3	2	4
Potterton Myson	EP4000, 4001, 4002, 5002		N	L	5	4	2	
Siemens / Landis & Staefa	RWB3		N	L		4	3	
	RWB27, RWB30, RWB50, 100, 152, 170		N	L	2	4	3	
	RWB7	E	N	L	2	4	3	
Sunvic	Select 107, SunPro1000		N	L	1	3	2	4
	SP20, SP35		N	L	3	5	4	5
Salus	EP101, SP120		N	L	4	3		
Grasslin Towerchron	QE1		N	L	2	4		
	T2001, T2001Q	E	N	L		7		
Sangamo	M6			E	4	6	3	1
Smiths	Centroller Mk1 & Mk2		N	L	3	2		
	Centroller 30		1	2		3/4		
	Centroller 300, 980		N	L	4	1		
Venner	Vennerette		N	L	LINE	LOAD		

Room Thermostat Terminal Comparisons

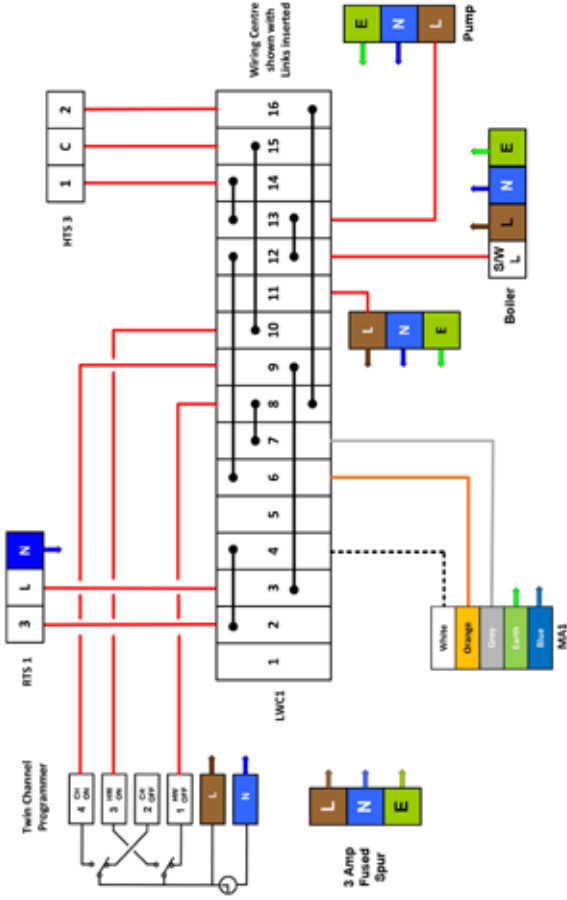
Make	Model	Earth	Neutral	Live	Common	Satisfied	Demand
Current Models							
Drayton	Wiser Thermostat Kit 1	N	L	C	Off	On	
	Digistat+2 and +3 (Mains)	N	L	C	Off	On	
Drayton	Digistat+, +1, +2 and +3 (Battery)			C	Off	On	
	RTS 1, 2	N		L		3	
	RTS 4, 5 & 6, 9	N	L	1	2	3	
Discontinued / Competitors' Models							
Drayton	Digistat 1, 2, 3, 3 and 4			1	2	3	
	miGenie Wish 1	N	L	1	2	3	
	RT/RE	4		1	3	2	
ACL Lifestyle	PT 271, 371	N	L	1	2	3	
	OPT 170, PT 110, 170	N	L	4		3	
	TP2, 3, 4, 5, 5E, RT1			1	2	3	
	TP 5000, RT51, RT52, TP5000 Si			B	A	C	
	TP7000			1	3	2	
	TP7001A			H COM	H OFF	H ON	
	TP7001M	N	L	H COM	H OFF	H ON	
	TP75			3	6	5	
	TP75H			COM	OFF	ON	
Danfoss	RET-B			3	1	2	
	TP7000M	N	L	1	3	2	
	TP6000M			N	L	1	
	RET M, MD			N	L	2	
	TP75M, MA	N	L	1	2	4	
	TP 1	E	N		L	2	
	RD3, RD3A	4		1		2	
	RTC, RTM, RSR	E	N	3	2	1	
	RMT 230	4		1	3	2	
	R504			N		3	
	RET 230, NL213	N		L	4	3	
	TP5000M Si, TP5000MA Si	N	L	2	1	3	
Honeywell	CM31, 37, 41, 51, 61, 67, CM721, CM727, CM901, CM907			A	C	B	
	CT200, T6620, DT200, DT90E			A	C	B	
	T6060/6160/6063/6360	2		1	4	3	
	C-Stat 11-B, C-Stat 17-B			1	3	4	
	C-Stat 11-M, C-Stat 17-M	N	L	1	3	4	
	AS2			1		2	
Horstmann	AS1	N	L	2		4	
	Centuarstat 1 & 7	4		1	3	2	
	HRT 1	E	4	1		2	
	HRT4-A	2		1		4	
	HRT4-B			1		4	
Myson	MPRT, MRTE			2		1	
	MRT1	4		1		3	
	PRT 1	N		L		H	
Potterton	PRT2 & 100 ST		N		TL	C	
	PRT 100 DT	N			TL	C	H
Siemens / Landis & Gyr / Landis & Staefa	REV 11, 12			L		L1	
	RAD 1	E			1	3	
	RAA02	N		1	Y3	Y2	
	TLX 1001 / 1005	N	L	COM	OFF	ON	
	TLX 9000 series	4		1	2	3	
	TLX 6501			1	3	2	
	TLX 7501, TLX 1009			3	1	2	
Sunvic	TLX 2251			3		1	
	TLX 2222, 2259, 2267	E	4	3		1	
	TLX 2356			3	2	1	
	TXL 3101, 5101	2		1		8	
	TLX 4101, 4102			2	3	1	
	TLX 5201, 5202	2		1	6	8	
	TA 351	E	4	1	2	3	
Salus	RT100			COM	NC	NO	
	RT200, RT300, RT500, ST320, ST320PB,	N		L		SL	
	ST620, ST620B, 091FL, 091FLPB						
Tower	SS	E	4	1		2	

Wireless Room Thermostat Terminal Comparisons

Make	Model	Earth	Neutral	Live	Common	Satis- fied	Demand
Current Models							
Drayton	Digistat+RF, +1RF, +2RF and +3RF	N	L	1	2	3	
Discontinued / Competitors' Models							
Drayton	miGenie Wish 1	N	L	1	2	3	
	MiStat MN110R and MP710R	N	L	1	2	3	
	Digistat RF1, RF2, RF3 and RF3i	N	L	1	2	3	
Danfoss	RET B-RF, RT51-RF, TP4000-RF, TP5000-RF Si, TP7000-RF	N	L	2	4	3	
Honeywell	Y6630D, DT92E, CM921, CM927	N	L	A	C	B	
Horstmann	C-Stat 11-ZW, C-Stat 17-ZW, AS2RF, HRT4-ZW	N	L	2	3	4	
Myson	MPRT-RF	N	L	C		1	
Siemens	RDH10RF, RDJ10RF, REV24RF	N	L	Lx	L2	L1	
	TLX RFPv	N	L	2	3	1	
Sunvic	TLX 1010 RF, TLX 1012 RF	N	L	COM	OFF	ON	
Salus	RT300RF, RT500RF, RT500ROF, 091FLRF, ST320RF, ST620RF, iT500	N	L	COM		NO	

The background of the page is a light gray with a complex, abstract pattern of thin blue lines. These lines represent circuit traces, branching and connecting various circular nodes. Some nodes are solid blue circles, while others are white circles with blue outlines. The pattern is dense and covers the entire page, creating a technical, high-tech aesthetic.

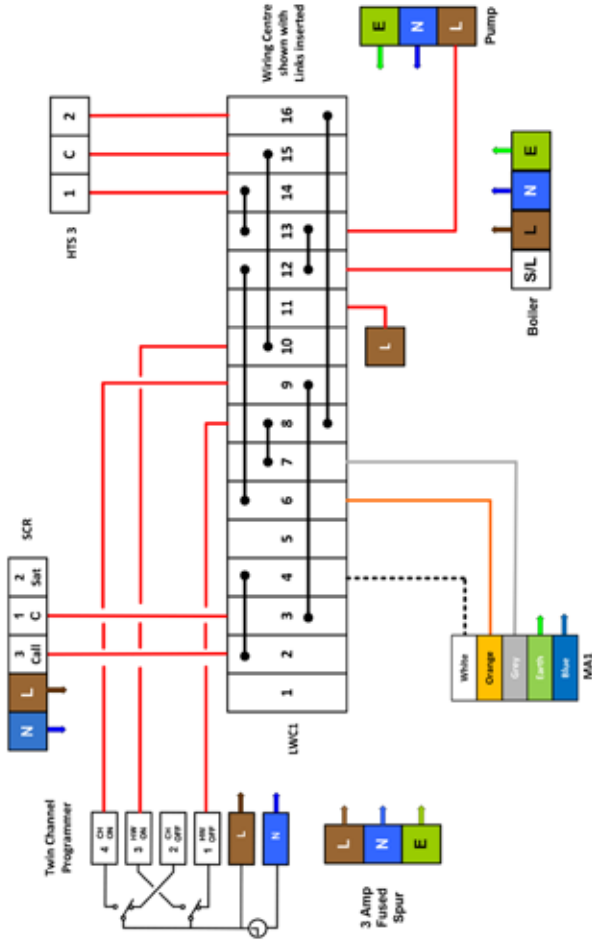
Wiring Diagrams



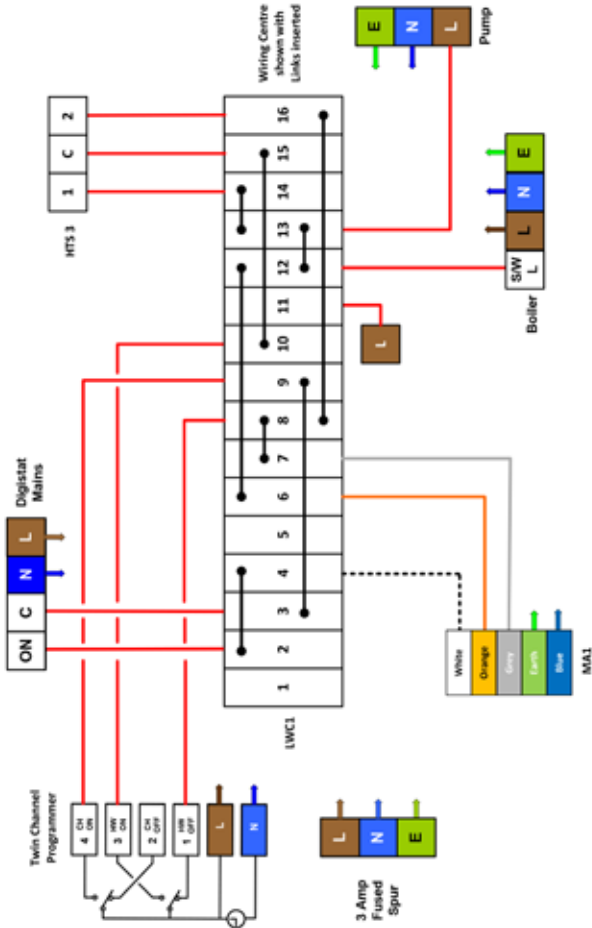
For conversion to Wiser Kit 2

- Disconnect and make safe the 'live in' and 'live out' wires to the room thermostat at the wiring centre
- Add a wire link between the 2 terminals (2 & 3) where the wired room thermostat was connected, to achieve continuity between CH on and the white wire of the mid position actuator

Biflo with LWC1 to an SCR receiver



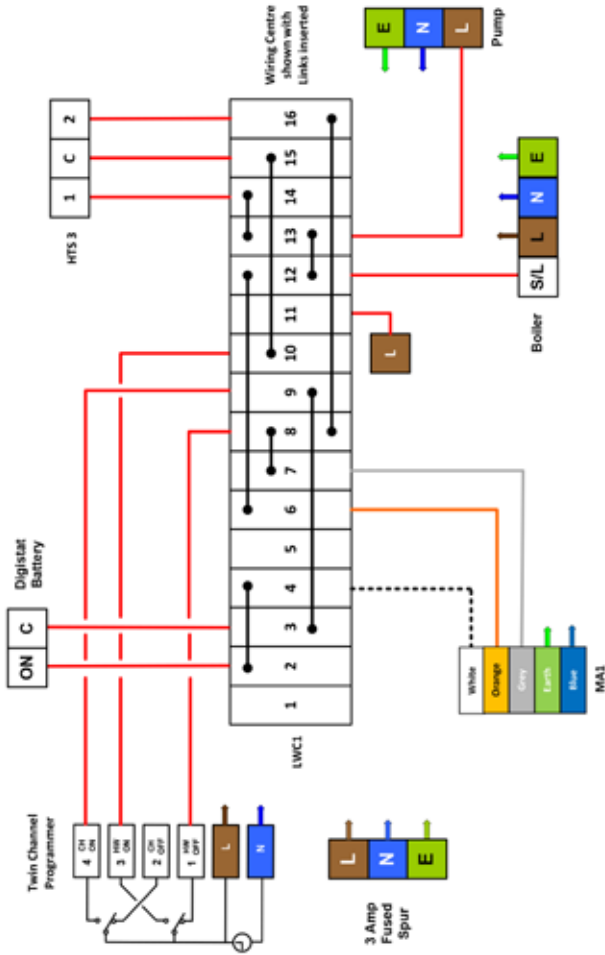
Biflo with LWC1 to a Digistat mains version

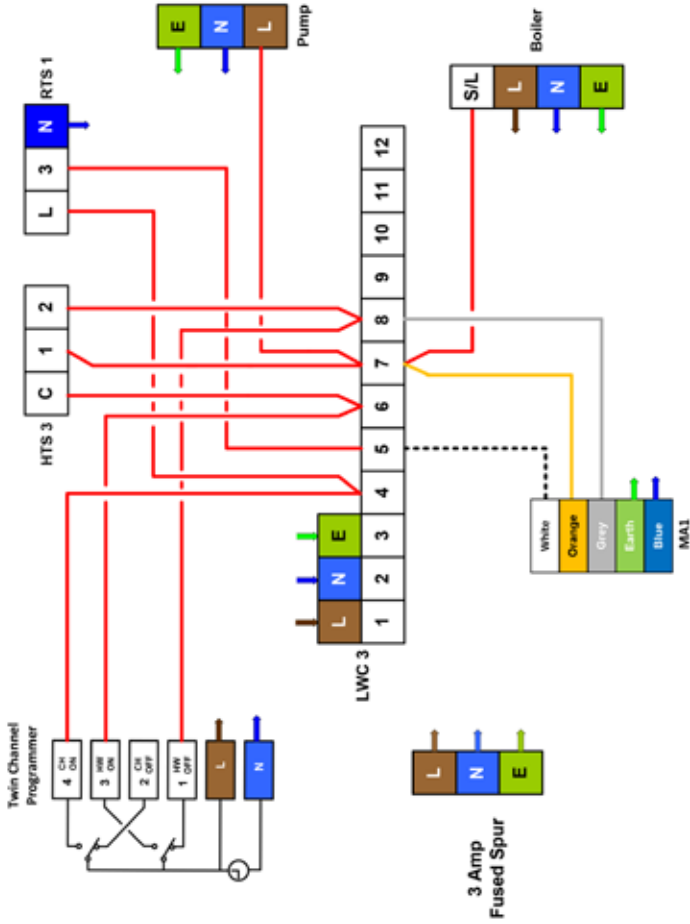


Biflo

with LWC1

to a Digistat battery version

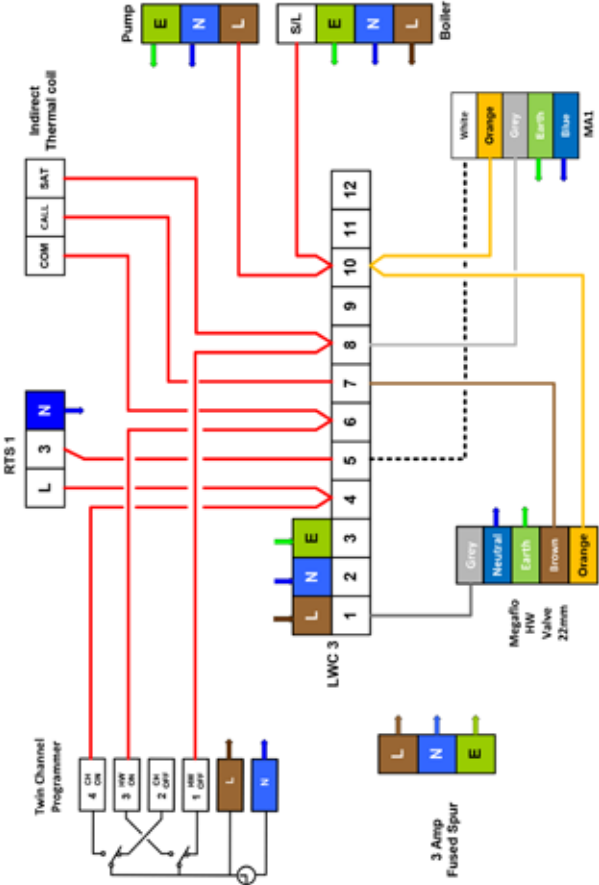




For conversion to Wiser Kit 2

- Disconnect and make safe the 'live in' and 'live out' wires to the room thermostat at the wiring centre
- Add a wire link between the 2 terminals (4 & 5) where the wired room thermostat was connected, to achieve continuity between CH on and the white wire of the mid position actuator

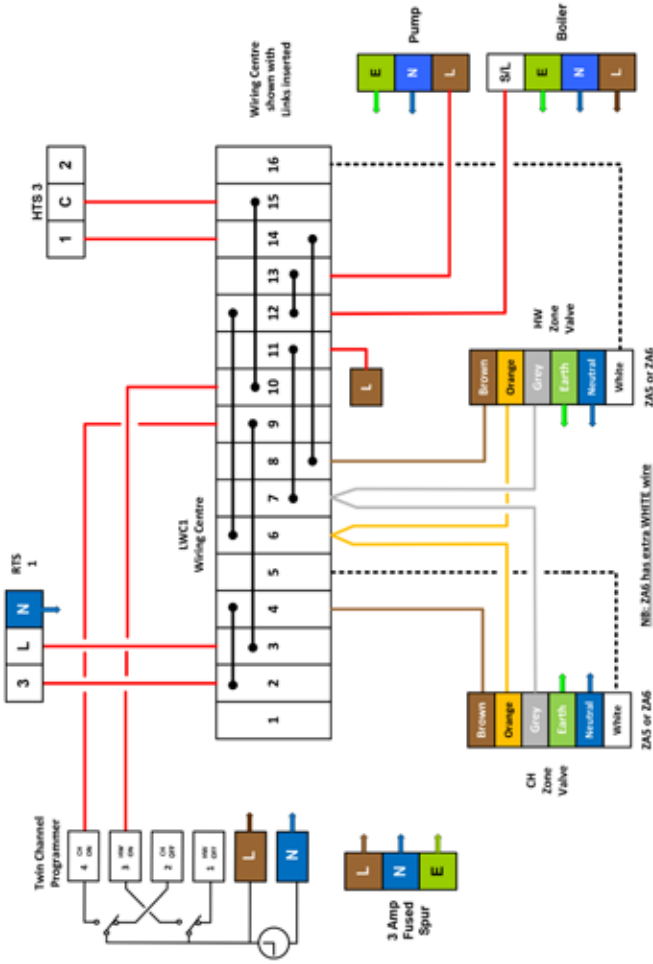
Biflo with LWC3 to an un-vented mains pressure cylinder



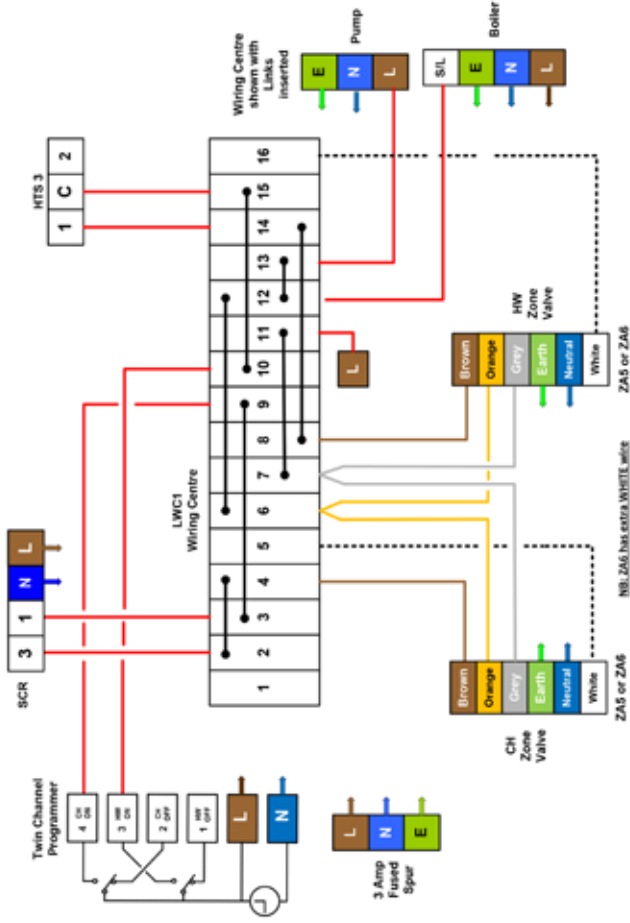
Twin Zone with LWC1

For conversion to Wiser Kit 2

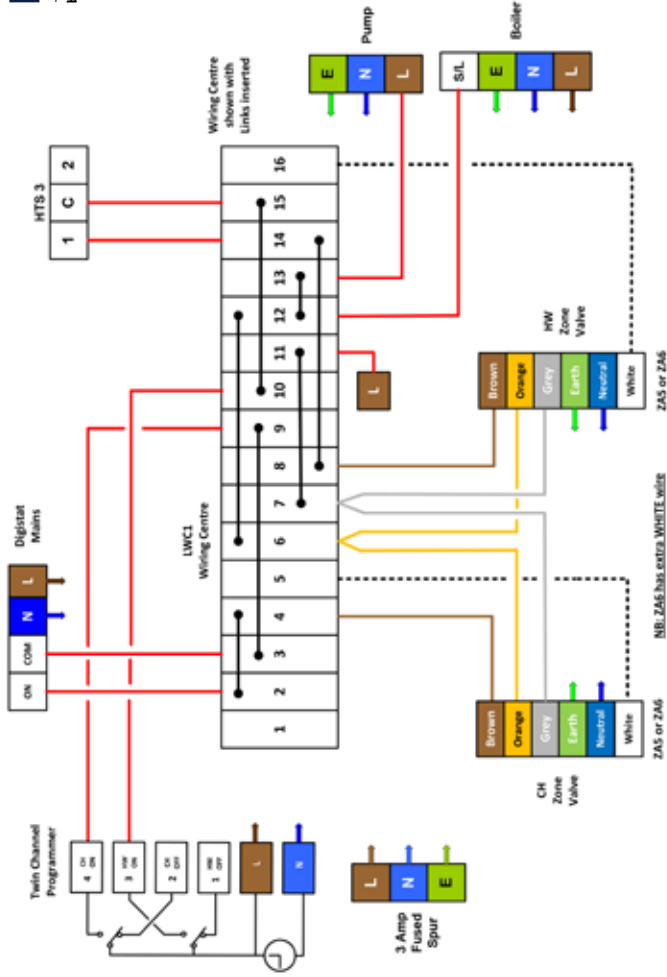
- Disconnect and make safe the 'live in' and 'live out' wires to the room thermostat at the wiring centre
- Add a wire link between the terminals (2 & 3) where the wired room thermostat was connected, to achieve continuity between CH on and the brown wire of the CH 2 port actuator



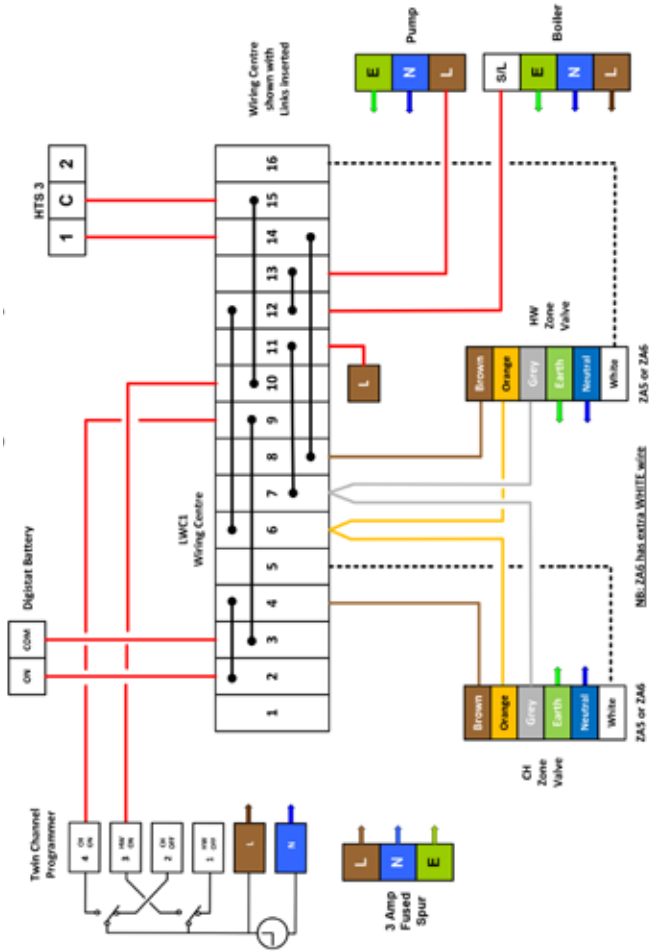
Twin Zone with LWC1 to an SCR receiver



Twin Zone with LWC1 to a Digistat mains version



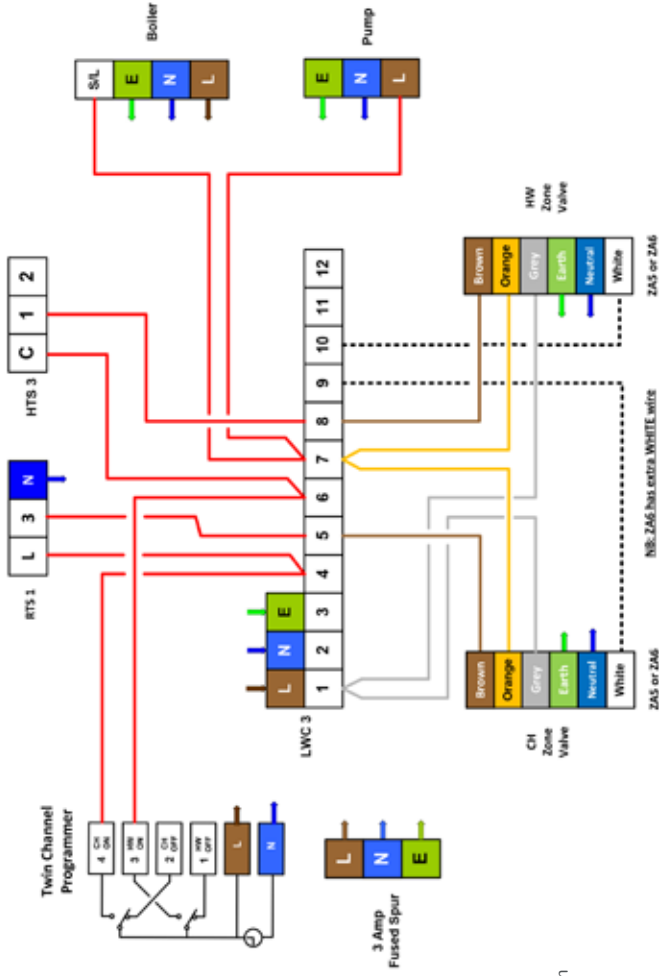
Twin Zone with LWC1 to a Digistat battery version



Twin Zone with LWC3

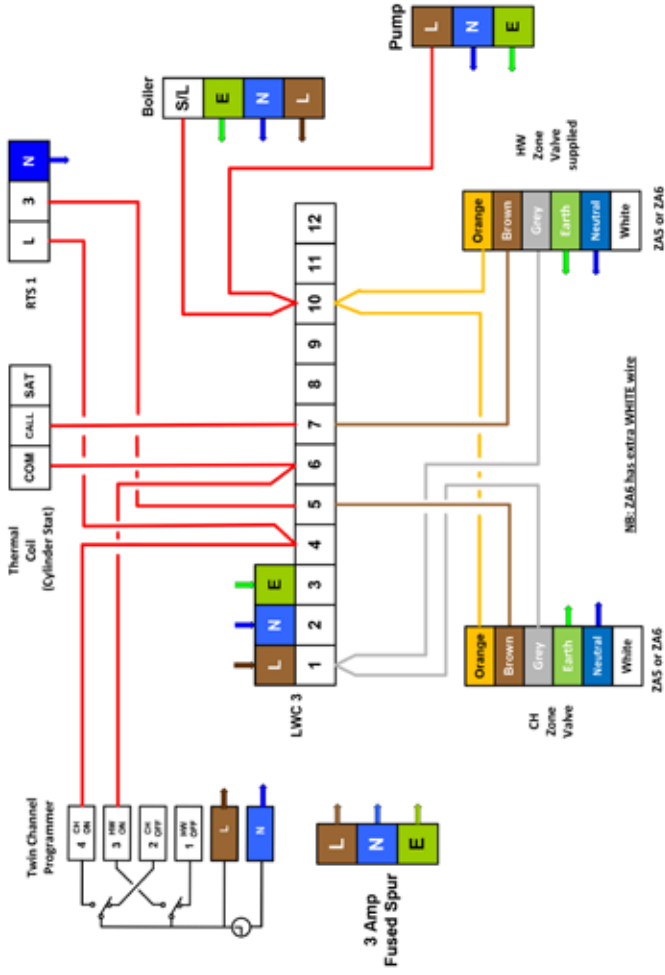
For conversion to Wiser Kit 2

- Disconnect and make safe the 'live in' and 'live out' wires to the room thermostat at the wiring centre
- Add a wire link between the 2 terminals (4 & 5) where the wired room thermostat was connected, to achieve continuity between CH On and the brown wire of the CH 2 port actuator



Twin Zone

with LWC3 to
an un-vented
mains pressure
cylinder
(megaflo
system)

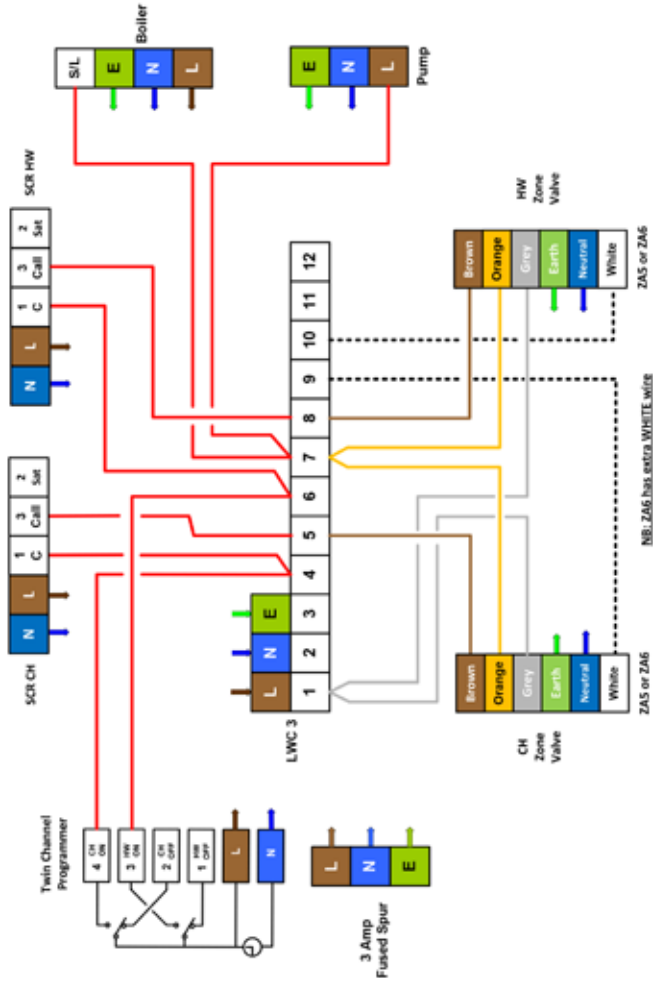


Twin Zone

with LWC3
showing RF
CH & HW
controls

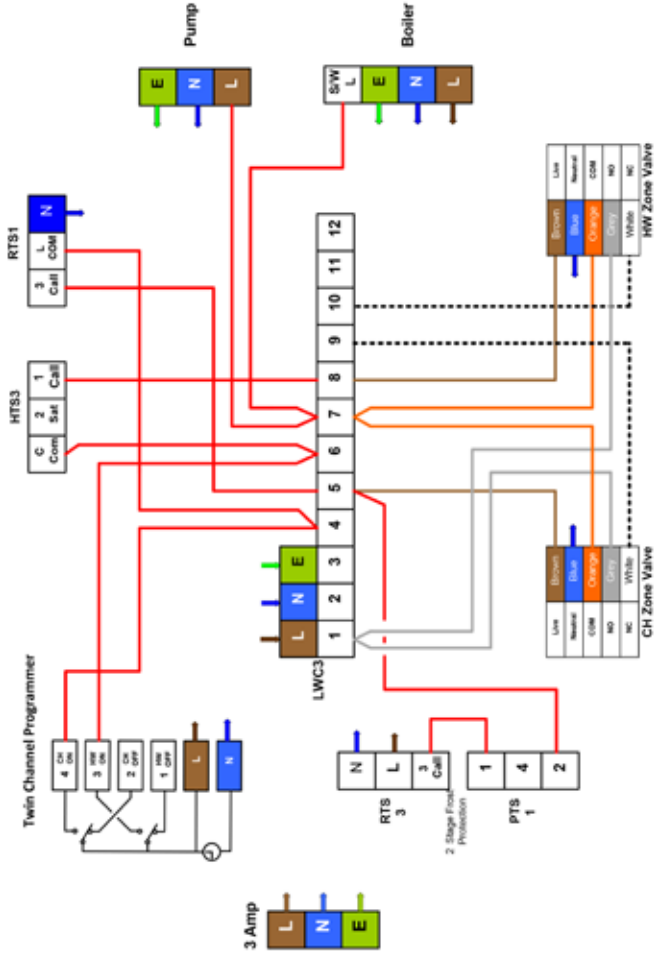
Drayton

by Schneider Electric



Twin Zone

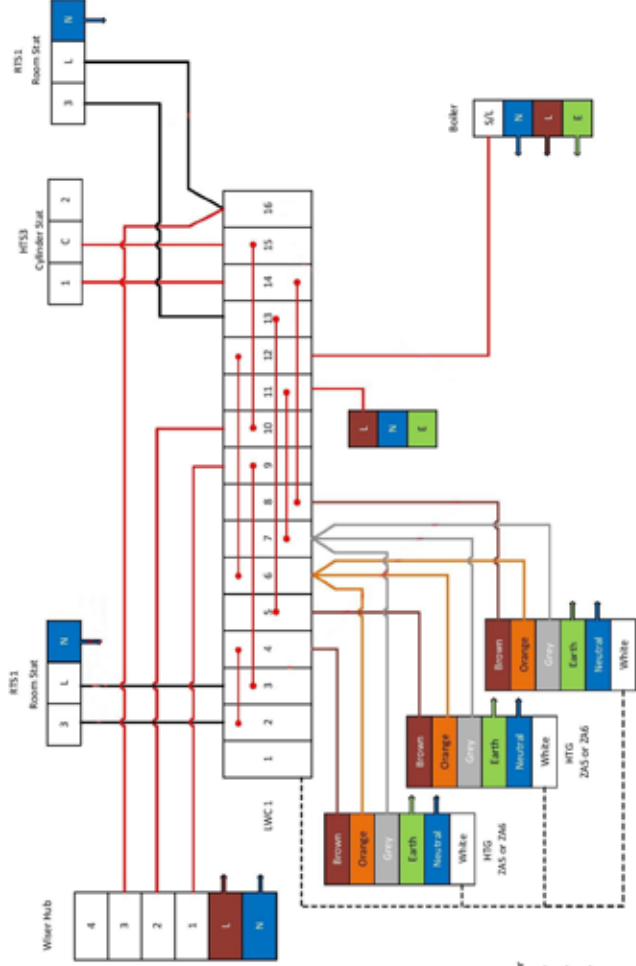
with LWC3 showing 2 stage frost protection



Three Zone with LWC1

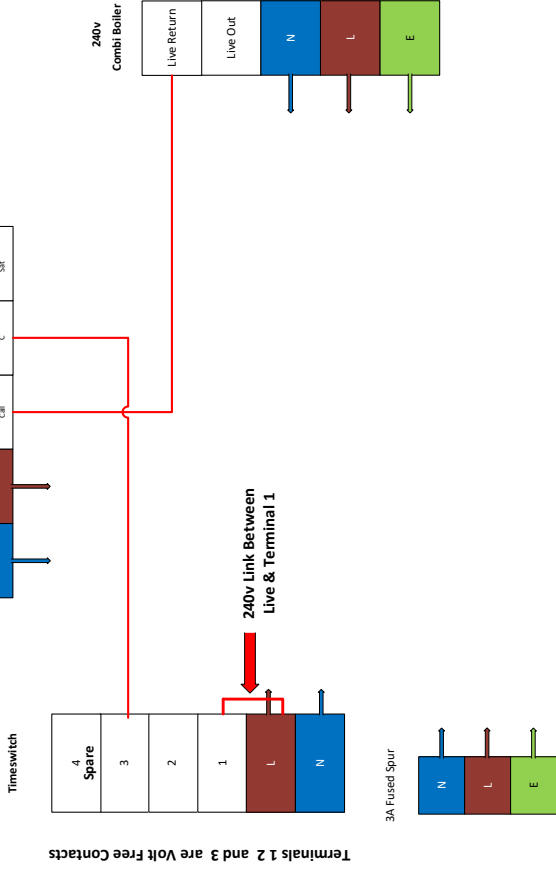
For conversion to Wiser Kit 3

- Remove and make safe the 'live in' and 'live out' from both the wired room thermostats
- Add a link between the terminals (2 & 3 and 13 & 16) where the wired room thermostats were connected



One Zone

Timer with voltage-free temperature control



For conversion to Wiser Kit 1

- Link together the 'live in' and 'live out' at the temperature control

Wiser Troubleshooting

Removing devices and factory reset

Devices can be removed from the heating system using the Wiser Heat app. Go to 'Home' then 'Settings' then 'Rooms', tap on the device then tap on the 'Remove from System' button on the 'Device Details' menu screen.

Note: If a device has been removed from the system, it will no longer be visible in the app. However, if a device is out of range, or is switched OFF when the request is made it will need to be factory reset separately (see Device Factory Reset below). Where a radiator thermostat has to be taken off a radiator valve following removal from the system, follow steps below:

- Open the valve as indicated in the table "Head calibration" on page 55
- Unscrew the radiator thermostat from the radiator valve.

Hub factory reset

The Heat Hub^R can be reset to factory settings, which will remove all devices from the system and remove the Wi-Fi connection settings.

Note: This will not remove your Cloud account so you will either need to call customer services to remove your account or register with a different e-mail address.

To factory reset the Heat Hub^R refer below:

- Press and hold the 'Set-up' button for more than 20 seconds

Note: The LED will go through a few LED sequences, however the reset warning is indicated by solid Red. This is the final LED sequence and upon extinguishing it will implement the reset.

Note: To re-use devices you may also need to perform Device Factory Resets on individual products in accordance with the instructions in this section.

Device factory reset

Devices can be reset manually at any time e.g. if the Heat Hub^R is replaced. To remove the device binding to a heating system allowing it to be joined to another system do the following:

Room thermostat:

- Remove the batteries and re-insert them
- When the 'Wiser Thermostat' splash screen is displayed press and hold the + and – buttons for 20 seconds until 'Join a network' is displayed

Radiator thermostat:

- Twist and hold the cap of the radiator thermostat in the '-' direction
- Wait a few seconds until the centre LED begins to flash Red
- Keep holding the cap in the '-' direction and wait for 8 red flashes, which may take 20 seconds. Release the cap; all 3 LEDs flash once to indicate that the device is resetting.



Smart plug factory reset

To remove the smart plug from a heating system, allowing it to be joined to another system, follow these steps:













- Ensure that the smart plug is installed in a wall socket.
- Press and hold the ON/OFF button.
- In five seconds the LED will flash blue six times then go out. The device is now reset.

LED behaviour Radiator Thermostat

Normal use






State	User Interaction	Left LED	Centre LED	Right LED	Duration
Boost up	Twist the cap in the + direction				Solid for 5 seconds
Boost down	Twist the cap in the - direction				Solid for 5 seconds

Head calibration

State	User Interaction	Left LED	Centre LED	Right LED	Duration
Start up	Insert the batteries				Single quick flash
Opening the valve	Automatic upon inserting batteries OR Twist and hold the cap in + direction for 8 seconds (for changing batteries)				Solid until the valve is open
Ready to install on the valve	The radiator thermostat is ready to install when the valve is fully open (see above)		 		Red and Blue: flash for up to 5 minutes Orange solid = not joined Green solid = joined
Closing the valve	Twist and hold the cap in the – direction for 2 seconds				Solid until the valve is closed
Joining	Twist and hold the cap in the + direction for 3 seconds				Pulses for up to 2 minutes
Join success					Solid for 5 seconds
Joining failed	If no network is found after 2 minutes				Flashes for 5 seconds

LED behaviour Radiator Thermostat

Error state

State	User Interaction	Left LED	Centre LED	Right LED	Duration
Low battery					Solid for 1 second (Repeated each hour)
Critical battery					Fast flash for 5 seconds (Repeated each minute)
No signal	Twist the cap in the + direction to start a boost				Fast flash for 5 seconds (Repeated)
No signal	Twist the cap in the - direction to start a boost				Fast flash for 5 seconds (Repeated)
No network	Twist the cap in the + or - direction to start a boost				Solid with fade-out after 2 seconds. In this event, the radiator thermostat has not joined the Wiser system and must either join the Heat Hub ^R or be re-installed.








LED behaviour Smart Plug

Normal use



State	User Interaction	LED
-	Plug into wall socket (when not joined to the Heat Hub ^R)	1 red flash followed by 3 purple / red flashes followed by 3 blue flashes
-	Plug into wall socket (when joined to the Heat Hub ^R)	Red flash followed by solid purple for 1 second followed by solid blue for 1 second
Socket ON	Press ON/OFF button	Solid blue
Socket OFF	Press ON/OFF button	Off
Join smart plug to the Heat Hub ^R	Press and hold ON/OFF button for 2 seconds	Quick blue flashes. If the smart plug successfully joins the Heat Hub ^R , the LED stops flashing. If the smart plug fails to join the Heat Hub ^R , after 60 seconds, the quick blue flashes are followed by 6 slow flashes.
Interrupt Join Mode	Press ON/OFF button	Quick blue flashes are interrupted and followed by 6 slow blue flashes.
Reset the smart plug and return to factory settings	Press and hold ON/OFF button for 5 seconds	6 slow blue flashes

LED behaviour of the Heat Hub^R








Set-up

State	Button Press	LED	Description
Normal			Indicates the Heat Hub ^R is powered ON and operating as normal.
Set-up	Single press		In this mode, it is possible to connect directly to the Heat Hub ^R via Wi-Fi and make changes to the system.
Adding a device	Press and hold for > 3s (or initiate from the app)	 	Indicates the Heat Hub ^R is open to new devices joining the network.
Wi-Fi Error			The Heat Hub ^R is unable to connect to the Wi-Fi Network. Check the Wi-Fi router is powered ON and connected to the internet. If you have changed your Wi-Fi credentials (password) or if you have a new router, you must connect to your Heat Hub ^R in Set-up Mode and update your Wi-Fi network details.
Firmware upgrade			During a firmware upgrade cycle, the hub disconnects from the internet for a number of minutes to upgrade the firmware
Wiser Cloud connection lost			The Heat Hub ^R is currently unable to contact the Wiser Cloud service. You will still be able to use the Wiser Heat app at home when connected to the same Wi-Fi network as your Heat Hub ^R

Heating and hot water

State	Button Press	LED	Description
Normal			Indicates the respective heating or hot water relay is currently active.
Emergency Heat/Test	Single press		This will manually switch the relay ON. Hot Water: ON for 1 hour Heating: ON for 2 hours

Others

State	Button Press	LED	Description
Adding a RF range extender	Press and Hold 'Set-up' for longer than 3 s	 	Heat Hub ^R Set-up LED Indicates the Heat Hub ^R is ready to pair a range extender.
Reset	Press and Hold for longer than 20 s	   	 Indicates the Heat Hub ^R has been returned to factory settings. This will remove all devices from the system instantly. To re-use the devices, you must perform a device reset on all products.

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