HEATING CONTROLS

RESIDENTIAL

2023 UK Catalogue

EPH CONTROLS

EMBER

Commitment

Celebrating 26 Years in business

For 26 years, EPH have been supplying state of the art products to the residential, commercial and pharmaceutical markets.

In our 2023 residential heating controls catalogue, you will find our latest products with the best of features to suit your application.

I would like to draw your attention to a few of these products.

The Boiler Plus legislation is a result of our industry looking for a more sustainable and energy efficient heating solution. The result of this will be lower fuel consumption as well as reduced carbon emissions.

Our CP4, programmable RF room thermostat has all the features to meet the Boiler Plus requirements and with its ease of use, it will continue to be a popular choice for all installers.

Following a major update, the EMBER App can now control both Programmer based systems (EMBER PS) and Thermostat based systems (EMBER TS). On top of the existing features and benefits, voice control of your heating system is now possible via Alexa and Google Assistant.

The new CP4i, smart thermostat has now been launched based on the success of the CP4. Controlled by the EMBER App, up to 6 thermostats can be installed in a home with multi zone OpenTherm® control.

Our Detach Pro range of motorised valves are manufactured with internationally recognised, market leading components. As a result, we continue to offer an industry leading 5 year warranty as we have done for the last 15 years.

These are some of the exceptional products that we have available to you.

We hope you enjoy the full range of products within this catalogue or visit our website at www.ephcontrols.co.uk.

We shall continue to pre-empt market requirements by delivering quality products with the USP's that set us aside from our competitors and make our products the first choice for all installers.

Trevor Casey
Managing Director

Table of contents

RF Programmer Packs

EPH Controls' RF Programmer packs provide a 1 - 4 zone solution for RF zoning. All of these products are also WiFi ready, so that they can be controlled via the EMBER heating control app with the addition of the WiFi gateway. This offers a simple and convenient solution to installations, where time and temperature control is required via smart app.

1 Zone RF Programmer Packs [PS]

Add a GW01 Gateway to upgrade to EMBER App Control (see page 4)

PRODUCT CODE	PROGRAMMER	THERMOSTAT	
CWP1E	R17-RF	RFR	(with Boost button)
CWP1EB	R17-RF	RFRB	(with On/Off button)
CWP1EC	R17-RF	RFC	(with Boost button)

2 Zone RF Programmer Packs [PS]

Add a GW01 Gateway to upgrade to EMBER App Control (see page 4)

PRODUCT CODE	PROGRAMMER	THERMOSTAT	
CWP2E	R27-RF	RFR	RFC
CWP2CE	R27-RF	RFR	-
CWP2RE	R27-RF	RFR x 2	-

3 Zone RF Programmer Packs [PS]

Add a GW01 Gateway to upgrade to EMBER App Control (see page 4)

PRODUCT CODE	PROGRAMMER	THERMOSTAT	
CWP3E	R37-RF	RFR x 2	RFC
CWP3CE	R37-RF	RFR x 2	-
CWP3RE	R37-RF	RFR x 3	-

4 Zone RF Programmer Packs [PS]

Add a GW01 Gateway to upgrade to EMBER App Control (see page 4)

PRODUCT CODE	PROGRAMMER	THERMOSTAT	
CWP4E	R47-RF	RFR x 3	RFC
CWP4CE	R47-RF	RFR x 3	-
CWP4RE	R47-RF	RFR x 4	-

1 Zone Timeswitch PS

Add a GW01 Gateway to upgrade to EMBER App Control (see page 4)

For use with: RFR | RFC | EMBER
Programming Mode: 5/2d - 7d - 24h

PRODUCT CODE	NUMBER OF CHANNELS	SWITCH OUTPUT	BACKPLATE TYPE
R17-RF	1	Volt Free SPDT	6 pin

SWITCH RATING	AMBIENT TEMP RANGE	SCREEN DIMENSION	OPERATING PERIODS
3(1)A 230Vac	0 ... 50°C	100 x 35mm	3 per day

2 Zone Programmer PS

Add a GW01 Gateway to upgrade to EMBER App Control (see page 4)

For use with: RFR | RFC | EMBER
Programming Mode: 5/2d - 7d - 24h

PRODUCT CODE	NUMBER OF CHANNELS	SWITCH OUTPUT	BACKPLATE TYPE
R27-RF	2	230Vac SPDT	6 pin

SWITCH RATING	MAX AMBIENT TEMP RANGE	SCREEN DIMENSION	OPERATING PERIODS
3(1)A 230Vac	0 ... 50°C	100 x 35mm	3 per day

3 Zone Programmer PS

Add a GW01 Gateway to upgrade to EMBER App Control (see page 4)

For use with: RFR | RFC | EMBER
Programming Mode: 5/2d - 7d - 24h

PRODUCT CODE	NUMBER OF CHANNELS	SWITCH OUTPUT	BACKPLATE TYPE
R37-RF	3	230Vac SPDT	8 pin

SWITCH RATING	MAX AMBIENT TEMP RANGE	SCREEN DIMENSION	OPERATING PERIODS
3(1)A 230Vac	0 ... 50°C	100 x 35mm	3 per day

4 Zone Programmer PS

Add a GW01 Gateway to upgrade to EMBER App Control (see page 4)

For use with: RFR | RFC | EMBER
Programming Mode: 5/2d - 7d - 24h

PRODUCT CODE	NUMBER OF CHANNELS	SWITCH OUTPUT	BACKPLATE TYPE
R47-RF	4	230Vac SPST	8 pin

SWITCH RATING	MAX AMBIENT TEMP RANGE	SCREEN DIMENSION	OPERATING PERIODS
3(1)A 230Vac	0 ... 50°C	100 x 35mm	3 per day

RF Thermostats & WiFi Gateways

RF Room Thermostats `PS`

Mounting Type:
wall or free standing

PRODUCT CODE	TYPE	TEMP RANGE	FOR USE WITH
RFR	Room thermostat with boost button	5 ... 35˚C	R_7-RF & EMBER
RFRB	Room thermostat with on/off button	5 ... 35˚C	R_7-RF & EMBER

RF RANGE	AMBIENT TEMP RANGE	DIMENSIONS	POWER SUPPLY
Max 30m	0 ... 50˚C	86 x 86 x 25mm	2 x AAA (incl.)

RF Cylinder Thermostats `PS`

PRODUCT CODE	TYPE	TEMP RANGE	FOR USE WITH
RFC	Cylinder thermostat with boost button	10 ... 90˚C	R_7-RF & EMBER

RF RANGE	AMBIENT TEMP RANGE	DIMENSIONS	POWER SUPPLY
Max 30m	0 ... 50˚C	86 x 86 x 25mm	2 x AAA (incl.)

PRODUCT CODE	TYPE	TEMP RANGE	FOR USE WITH
RFCDBS	Cylinder thermostat with Hardwired Hi Limit Thermostat	10 ... 90˚C	R_7-RF & EMBER

Specifically for unvented cylinders to comply with Part G regulations.

RF RANGE	AMBIENT TEMP RANGE	DIMENSIONS	POWER SUPPLY
Max 30m	0 ... 50˚C	86 x 86 x 25mm	2 x AAA (incl.)

GW01 WiFi Gateway `PS`　　Used to upgrade your programmer to EMBER App Control

PRODUCT CODE	TYPE	FOR USE WITH
GW01	RF/WiFi Interface	EMBER PS

RF RANGE	AMBIENT TEMP RANGE	POWER SUPPLY
Max 10m	0 ... 50˚C	230Vac ±10%

GW03 WiFi Gateway `TS`　　Used to upgrade your CP4 to EMBER App Control

Dual band 2.4 / 5GHz

PRODUCT CODE	TYPE	FOR USE WITH
GW03	RF/WiFi Interface (Dual band 2.4 / 5GHz)	EMBER TS

RF RANGE	AMBIENT TEMP RANGE	POWER SUPPLY
Max 10m	0 ... 50˚C	230Vac ±10%

EMBER PS Smart Programmer Systems

5 Years WARRANTY STANDARD
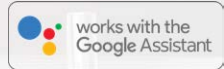
PS The EMBER PS Programmer Systems give you full control of your heating system directly from your smartphone or tablet. The system is comprised of wireless RF programmers, thermostats and a WiFi gateway.

With EMBER PS you can control up to 16 zones in a home.

Check out the Pack guide below, whatever the installation requires, EPH have an EMBER pack for you.

Download on the App Store

GET IT ON Google play

WORKS WITH alexa

works with the Google Assistant

EMBER PS SMART HEATING CONTROL - PACK GUIDE

	R17-RF 1 Zone Timeswitch	R27-RF 2 Zone Programmer	R37-RF 3 Zone Programmer	R47-RF 4 Zone Programmer	RFR Room Thermostat	RFC Cylinder Thermostat	GW01 Gateway
EMBER PS01	1				1		1
EMBER PS01a	1						1
EMBER PS02		1			1		1
EMBER PS03		1			2		1
EMBER PS04		1			1	1	1
EMBER PS04a		1					1
EMBER PS05			1		3		1
EMBER PS06			1		2		1
EMBER PS07			1		1		1
EMBER PS08			1		2	1	1
EMBER PS08a			1				1
EMBER PS09			1		1	1	1
EMBER PS10				1	4		1
EMBER PS11				1	3		1
EMBER PS12				1	2		1
EMBER PS13				1	1		1
EMBER PS14				1	3	1	1
EMBER PS14a				1			1
EMBER PS15				1	2	1	1
EMBER PS16				1	1	1	1

www.ephcontrols.co.uk/range/ember-ps

CP4

Programmable RF Thermostat

ErP
Class V
+3%

When one thermostat is fitted in conjuction with a modulating boiler

ErP
Class VIII
+5%

When three thermostats are fitted in conjuction with a modulating boiler

PRE-PAIRED Components

⬆ Boost Function

📦 Holiday Mode

🔋 Battery Operated

🔒 Keypad Lock

📟 Portable or Wall Mounted

USER FRIENDLY

User centered design is the key of CP4's development. With a large LCD and ergonomically shaped buttons, they are designed for easy use in the dark or for people with impaired vision.

PROGRAMMABLE

Allows flexible control by the users. Options available include 7 day, weekdays/weekend, or 24 hours. You can also choose to boost for 1 hour and a holiday mode is available for when you are away.

CONTEMPORARY

A comfortable and visually friendly interior is important to every home. Our designers have created this new sleek pure white casing, to be versatile and suit all interiors.

OPENTHERM®

Modulate your OpenTherm® boiler for maximum efficiency and minimum impact on our environment.

EASY INSTALLATION

The thermostat & receiver are pre-paired for your installer. As soon as the receiver is wired to your boiler, its ready to go.

COST EFFECTIVE

Reduce your energy bills with time and temperature control of your heating & hot water - anywhere.

MULTI ZONE

Control up to 6 zones via OpenTherm® by adding more thermostats. Hot water control is also possible with addition of CP4-HW-OT to the system.

CONVENIENT

Whether at home or abroad, easy control of your heating system is in the palm of your hand.

EMBER

CP4i [TS]

Smart Thermostat

WORKS WITH alexa

works with the Google Assistant

WARRANTY 5 Years STANDARD

The CP4i Smart Thermostat is the perfect combination of simplicity and technology. The thermostat, receiver and gateway are pre-paired during production to ensure a quick and easy installation.

With the EMBER App it is possible to have complete control over your heating system anywhere, anytime.

GW03 WIFI Gateway
Dual band 2.4 /5GHz

VOICE CONTROL

With Alexa or Google Assistant, you can control your heating system, check temperatures, boost zones and much more.

MULTIPLE CONTROL

Control multiple homes and add multiple users at the touch of a button via your smartphone.

EMBER TS SMART HEATING CONTROL - PACK GUIDE

	CP4	CP4-HW-OT	GW03
CP4i	1		1
EMBERTS01	1	1	1
EMBERTS02	2		1
EMBERTS03	2	1	1
EMBERTS04	3		1
EMBERTS05	3	1	1
EMBERTS06	4		1
EMBERTS07	4	1	1
EMBERTS08	5		1
EMBERTS09	5	1	1
EMBERTS10	6		1

GW03 — Dual band 2.4 / 5GHz

OpenTherm®   BOILER PLUS   Download on the App Store   GET IT ON Google play

RF Room / Cylinder Thermostats

Smart Thermostat, Receiver & GW03 Gateway [TS]

ErP Class V = 3%,
ErP Class VIII = 5% (When 3 no. thermostats are fitted in conjunction with a modulating boiler.)

PRODUCT CODE	COMPONENTS	TEMP RANGE	SWITCH OUTPUT
CP4i	RFRP-OT, RF1A-OT & GW03 (Dual band 2.4 / 5GHz)	5 ... 35˚C	SPDT Volt Free

SENSOR TYPE	SWITCH RATING	FEATURE	PROGRAMMING MODE
NTC100K	10A 230Vac	Optimum Start & TPI	5/2 Day, 7 Day, 24Hr

Programmable RF Thermostats & Receivers [TS]   Add a GW03 Gateway to upgrade to EMBER App Control (see page 4)

ErP Class V = 3%,
ErP Class VIII = 5% (When 3 no. thermostats are fitted in conjunction with a modulating boiler.)

PRODUCT CODE	COMPONENTS	TEMP RANGE	SWITCH OUTPUT
CP4	RFRP-OT & RF1A-OT	5 ... 35˚C	SPDT Volt Free
CP4-HW-OT	RFRP-HW-OT & RF1A-OT	10 ... 90˚C	SPDT Volt Free

SENSOR TYPE	SWITCH RATING	FEATURE	PROGRAMMING MODE
NTC100K	10A 230Vac	Optimum Start & TPi	5/2 Day, 7 Day, 24Hr

RF Thermostat & Receiver

ErP Class I = 1%

PRODUCT CODE	COMPONENTS	SWITCH RATING	SWITCH OUTPUT
CombiPack3	RFRA & RF1	10A 230Vac	SPDT Volt Free

SENSOR TYPE	TEMP RANGE	ON/OFF BUTTON
NTC10K	5 ... 35˚C	Yes

RF Cylinder Thermostat & Receiver

PRODUCT CODE	COMPONENTS	SWITCH RATING	SWITCH OUTPUT
RFCP	RFCA & RF1	10A 230Vac	SPDT Volt Free

SENSOR TYPE	TEMP RANGE	ON/OFF BUTTON
NTC10K	10 ... 90˚C	Yes

	CP4B	CP4M	CP4	CP4-HW-OT	CP4 *i*
Wireless			✓	✓	✓
Battery Powered	✓		✓	✓	✓
Hardwired		✓			
Smart / App Control			✓	✓	✓
Boiler Plus Compliant	✓	✓	✓	✓	✓
Opentherm®	✓	✓	✓	✓	✓
5 Years Warranty	✓	✓	✓	✓	✓
Boost Function	✓	✓	✓	✓	✓
Industry Standard Backplate	✓	✓			
Service Interval	✓	✓	✓	✓	✓

ErP Class **IV** +2%	Standard installation connected via TPi
ErP Class **V** +3%	When used with OpenTherm®
ErP Class **VIII** +5%	When 3 or more are fitted and connected via OpenTherm®

Order your branded flaps >

with your contact details on the inside.

YOUR LOGO HERE

WED
31.05.
08:53 21.0°
OFF

AUTO MAN OFF PROG TIME HOL COPY BOOST OK

Your Service Number Here

ErP Class **V** +3%

OpenTherm®

BOILER PLUS

WARRANTY 5 Years STANDARD

TR1 TR2 RF Mains Switch

Ideal for any installation where its not possible to run cables.

The TR1 TR2, 2 Way RF Transceiver Pack is a unique product from EPH Controls, allowing a wireless signal to be sent from one device to the other and back to the original device. This can allow wireless operation of motorised valves which are located in areas where wiring is not possible. This can achieve boiler interlock as well as other applications.

PRE-PAIRED Components

WARRANTY 5 Years STANDARD

2 Way RF Communication | Meets Part L Building Regulations | Save Time and Materials

Single Wireless Switch

In this example, a thermostat is connected to the TR1 transceiver. When the thermostat is turned on, an RF signal is sent from TR1 to TR2. This then powers the zone valve.

Thermostat	TR1		TR2	Zone Valve

Switched Live to activate your system from thermostat or timeswitch

MAINS SUPPLY

C | L out | L in | L | N

COMMON FOR RELAY

MAINS SUPPLY

C | L out | L in | L | N

If 230V is required then loop C to Mains Live

Switched Live to Zone Valve
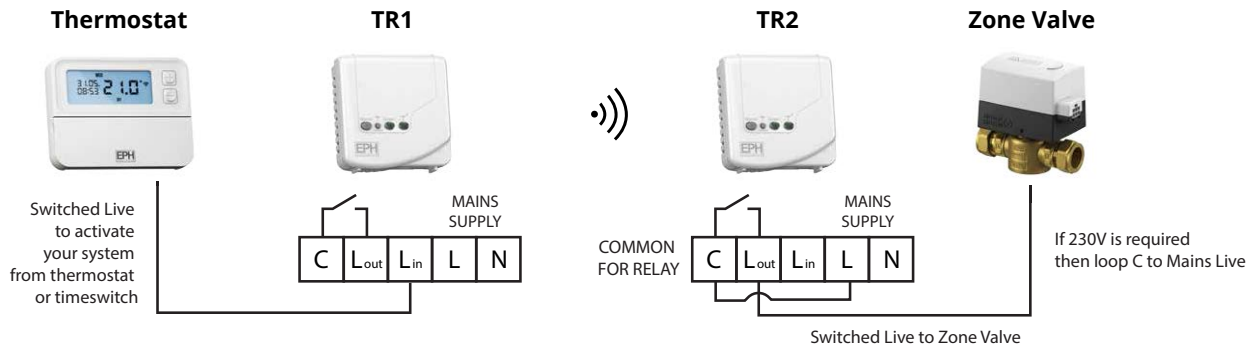
Double Wireless Switch (Boiler Interlock)

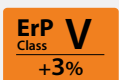In this example, a thermostat is connected to the TR1 transceiver. When the thermostat is turned on, an RF signal is sent from TR1 to TR2. This then powers the zone valve. When the auxiliary switch on the zone valve closes, 230V is sent to L in. An RF signal is then sent from TR2 to TR1 and this switches the boiler through a volt free contact.

Thermostat	TR1		TR2	Zone Valve

Switched Live to activate your system from thermostat or timeswitch

COMMON FOR RELAY

MAINS SUPPLY

C | L out | L in | L | N

Remove Link from Boiler PCB. Run 2 core cable from these terminals to C and Lout.

COMMON FOR RELAY

MAINS SUPPLY

C | L out | L in | L | N

If 230V is required then loop C to Mains Live

230V Switched Live from Aux

Switched Live to Zone Valve

For Actuator Auxiliary Switch

L

N

RF Mains Switch

5 YEAR WARRANTY | 30 METRE | BOX QTY 50 | CE | UK CA

PRODUCT CODE	TYPE	CONTACT RATING	MOUNTING TYPE
TR1TR2	Transceiver	10(3)A 230Vac	Wall

RF RANGE	AMBIENT TEMP RANGE	DIMENSION	POWER SUPPLY
Max 30m	0-50˚C	84 x 84 x 30mm	230Vac ±10%

Y Plan RF Heating Control Packs [PS]

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTAT		WIRING CENTRE
CR22PRF	R27-RF	B322PF	RFR	RFC	WC2
CR28PRF	R27-RF	B328PF	RFR	RFC	WC2

S Plan RF Heating Control Packs [PS]

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTAT		WIRING CENTRE
CR222PRF	R27-RF	V222P x 2	RFR	RFC	WC2
CR228PRF	R27-RF	V228P x 2	RFR	RFC	WC2

S Plan RF Unvented Heating Control Packs [PS]

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTAT		WIRING CENTRE
CR222PURF	R27-RF	V222P	RFR	-	WC2
CR228PURF	R27-RF	V228P	RFR	-	WC2

S Plan RF Heating Control Pack with Hardwired Cylinder Thermostat [PS]

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTAT		WIRING CENTRE
CRF2P-221221	R27-RF	V222P x 2	RFR	WRP	WC2

2 Zone Combi Zoning RF Control Pack [PS]

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTAT		WIRING CENTRE
CRF2P-222201	R27-RF	V222P x 2	RFR x 2	-	WC2

3 Zone RF Heating Control Packs PS

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTAT		WIRING CENTRE
CR322PRF	R37-RF	V222P x 3	RFR x 2	RFC	WC2
CR328PRF	R37-RF	V228P x 3	RFR x 2	RFC	WC2

3 Zone RF Unvented Heating Control Packs PS

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTAT		WIRING CENTRE
CR322PURF	R37-RF	V222P x 2	RFR x 2	-	WC2
CR328PURF	R37-RF	V228P x 2	RFR x 2	-	WC2

3 Zone RF Heating Control Pack with Hardwired Cylinder Thermostat PS

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTAT		WIRING CENTRE
CRF3P-322221	R37-RF	V222P x 3	RFR x 2	WRP	WC2

3 Zone Combi Zoning RF Heating Control Pack PS

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTAT		WIRING CENTRE
CRF3P-323201	R37-RF	V222P x 3	RFR x 3	-	WC2

4 Zone RF Heating Control Packs PS

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTAT		WIRING CENTRE
CR422PRF	R47-RF	V222P x 4	RFR x 3	RFC	WC2
CR428PRF	R47-RF	V228P x 4	RFR x 3	RFC	WC2

4 Zone RF Unvented Heating Control Packs PS

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTAT		WIRING CENTRE
CR422PURF	R47-RF	V222P x 3	RFR x 3	-	WC2
CR428PURF	R47-RF	V228P x 3	RFR x 3	-	WC2

Wiring Centre 10 Zone 230V

NEW

PRODUCT CODE	POWER SUPPLY	NO. OF ZONES	PROGRAMMER INPUTS
UFH10	230Vac, ±10%	10	4

CONTACT RATING	UFH/RAD+HW SWITCHES	HEAT ENABLE OUTPUT	UFH PUMP OUTPUT
5A	2	Volt Free	230V~

UFH10 is compatible with the following thermostats

Mechanical Thermostats

| CM2 | CM3 | CMT | CM2S | CM3S |

Programmable Thermostats

| CDTP2 | CRTP2 | RDTP | CP4B | CP4M |

Non Programmable Thermostats

| CDT2 | CRT2 | RDT | HDT | HRT |

Cylinder Thermostats

| EDBS | WRP | WRP-TP | WRP-IM | WRP-IM-TP |

Dial Thermostats with Setback Function

NEW

PRODUCT CODE	POWER SUPPLY	SWITCH RATING	CONTACT TYPE
HDT	230Vac ± 10%	7A 230V	SPST
HRT	2 x AA Batteries (Incl)	8A 230v	SPST

SENSOR TYPE	TEMP RANGE	ADJ. SWITCHING DIFFERENTIAL	SPECIAL FUNCTION
NTC100K	5 ... 35˚C	0 ... 1.0˚C	Delay Start / TPI / Setback Function

ErP Class IV = 2%
Delay start & On / Off control

Recessed Programmable Thermostat

NEW

PRODUCT CODE	POWER SUPPLY	SWITCH RATING	SWITCH OUTPUT
RDTP	230Vac ±10%	10(3)A 230Vac	SPDT Volt Free

SENSOR TYPE	TEMP RANGE	ADJ. SWITCHING DIFFERENTIAL	SPECIAL FUNCTION
NTC 100K Internal	5...35°C	0 ... 1.0°C	Optimum Start / TPI / Remote Sensor Compatible

ErP Class IV = 2%

ACCESSORIES CODE	DESCRIPTION
NTC 10K	NTC 10K Cable Sensor, 1.5M
NTC Housing	Cable Sensor Housing

Recessed Thermostat with Setback Function

NEW

PRODUCT CODE	POWER SUPPLY	SWITCH RATING	CONTACT TYPE
RDT	230Vac ± 10%	10 (3)A 230v	SPDT

SENSOR TYPE	TEMP RANGE	ADJ. SWITCHING DIFFERENTIAL	SPECIAL FUNCTION
NTC100K	5 ... 35˚C	0 ... 1.0˚C	Delay Start / TPI / Setback Function

ErP Class IV = 2%
Delay start & On / Off control

Surface Mounted Programmable Thermostats

CP4M

ErP Class V= 3%   On / Off control

PRODUCT CODE	POWER SUPPLY	SWITCH RATING	CONTACT TYPE
CP4M	230Vac ±10%	8A 230Vac	SPDT Volt Free

SENSOR TYPE	TEMP RANGE	ADJUSTABLE SWITCHING DIFFERENTIAL	PROGRAMMING MODE
NTC100K	5 ... 35˚C	0.2 ... 1.0˚C	5/2d - 7d - 24h

CDTP2 (NEW)

ErP Class IV = 2%   On / Off control

PRODUCT CODE	POWER SUPPLY	SWITCH RATING	CONTACT TYPE
CDTP2	230Vac ±10%	8A 230Vac	SPDT Volt Free

SENSOR TYPE	TEMP RANGE	ADJUSTABLE SWITCHING DIFFERENTIAL	PROGRAMMING MODE
NTC100K	5 ... 35˚C	0.2 ... 1.0˚C	5/2d - 7d - 24h

CP4B

ErP Class V= 3%   On / Off control

PRODUCT CODE	POWER SUPPLY	SWITCH RATING	CONTACT TYPE
CP4B	2 x AA Batteries (Incl.)	7A 230Vac	SPDT Volt Free

SENSOR TYPE	TEMP RANGE	ADJUSTABLE SWITCHING DIFFERENTIAL	PROGRAMMING MODE
NTC100K	5 ... 35˚C	0.2 ... 1.0˚C	5/2d - 7d - 24h

CRTP2 (NEW)

ErP Class IV = 2%   On / Off control

PRODUCT CODE	POWER SUPPLY	SWITCH RATING	CONTACT TYPE
CRTP2	2 x AA Batteries (Incl.)	8A 230Vac	SPDT

SENSOR TYPE	TEMP RANGE	ADJUSTABLE SWITCHING DIFFERENTIAL	PROGRAMMING MODE
NTC100K	5 ... 35˚C	0.2 ... 1.0˚C	5/2d - 7d - 24h

Surface Mounted Thermostats

NEW

PRODUCT CODE	POWER SUPPLY	SWITCH RATING	CONTACT TYPE
CDT2	230Vac ±10%	7A 230Vac	SPDT Volt Free
CDT2-24	24Vac ±10%	7A 24Vac	SPDT Volt Free

SENSOR TYPE	TEMP RANGE	ADJUSTABLE SWITCHING DIFFERENTIAL
NTC100K	5 ... 35˚C	0.2 ... 1.0˚C

ErP Class IV = 2%
Delay start & On / Off control

NEW

PRODUCT CODE	POWER SUPPLY	SWITCH RATING	CONTACT TYPE
CRT2	2 x AA Batteries (Incl.)	8A 230Vac	SPDT Volt Free

SENSOR TYPE	TEMP RANGE	ADJUSTABLE SWITCHING DIFFERENTIAL
NTC100K	5 ... 35˚C	0.2 ... 1.0˚C

ErP Class IV = 2%
Delay start & On / Off control

Thermal Actuators

PRODUCT CODE	POWER SUPPLY	ACTUATOR TYPE	RUNNING TIME	AUXILIARY SWITCH
TA24	24Vac	Normally Open or Closed	4.5 min	-
TA230	230Vac	Normally Open or Closed	3.5 min	-
TA230S	230Vac	Normally Closed	4.5 min	Yes

MAX. STROKE	AMBIENT TEMP RANGE	SPRING PRESSURE	VALVE CONNECTION
3.5mm	0 ... 50˚C	125N	M30x1.5

Immersion Controller

PRODUCT CODE	POWER SUPPLY	SWITCH OUTPUT	BOOST OPTIONS
IMC	230Vac, 50Hz	230Vac SPST	30mins / 1hr / 2hr / 3hr

CONTACT RATING	OPERATING PERIODS	DIMENSION	MAX AMBIENT TEMP RANGE
16A Resistive	3 per day	170x116x63 mm	0 ... 45˚C

Digital Cylinder / Room Thermostat

Cylinder or Room thermostat with remote probe sensor

NEW

PRODUCT CODE	POWER SUPPLY	SWITCH RATING	CONTACT TYPE
CDC2	230Vac ± 10%	16A 230Vac	SPDT

SENSOR TYPE	TEMP RANGE	ADJ. SWITCHING DIFFERENTIAL	SPECIAL FUNCTION
NTC 10K External only	5....90°C / 5...35°C	0...20°C / 0...1°C	Delay Start and TPI for heating function

ACCESSORIES CODE	DESCRIPTION
NTC 10K	NTC 10K Cable Sensor, 1.5M
NTC Housing	Cable Sensor Housing

Digital Cylinder Thermostat with High Limit

Built-in Legionaires function

PRODUCT CODE	POWER SUPPLY	SWITCH RATING	CONTACT TYPE
EDBS	230Vac ± 10%	8A 230Vac	SPDT Volt Free

SENSOR TYPE	TEMP RANGE	ADJUSTABLE SWITCHING DIFFERENTIAL
NTC10K	10 ... 90˚C	0 ... 20˚C

Electronic Boost Timer

PRODUCT CODE	POWER SUPPLY	SWITCH RATING	MAX LOAD
BST3	230Vac ± 10%	16A 230Vac	3 Kw

TIME PERIOD
15min, 30min, 1hr, 2hr & 3hr

Motorised Valves

EPH Controls' range of motorised valves offer market leading functionality. Two port motorised valves come with a detachable actuator, detachable power cable and a power on light. In addition, all component parts of the actuator, are sourced from the market leaders in their fields in USA and Europe, making the DETACH Pro range of valves a must for all home heating installations.

2 Port Valves – Compression

DETACH PRO ▶

V22_P c/w
Light
Detach cable
Detach button

DS222P c/w
Light
Detach cable

PRODUCT CODE	CONNECTION TYPE	FLOW RATE	MAX. CLOSE OFF PRESSURE	BI-DIRECTIONAL FLOW
V222P	22mm compression	4.6 kvs	1.0 bar	No
DS222P	22mm compression	4.6 kvs	1.0 bar	Yes
V228P	28mm compression	6.8 kvs	0.6 bar	No

SWITCH RATING	MAX AMBIENT TEMP	MAX FLUID TEMP
11(3)A 230Vac	50°C	88°C

2 Port Valves – Female BSP

DETACH PRO ▶

V22_FP c/w
Light
Detach cable
Detach button

PRODUCT CODE	CONNECTION TYPE	FLOW RATE	MAX. CLOSE OFF PRESSURE
V222FP	3/4" female BSP	4.6 kvs	1.0 bar
V228FP	1" female BSP	6.8 kvs	0.6 bar
V232FP	1 1/4" female BSP	8.0 kvs	0.3 bar

SWITCH RATING	MAX AMBIENT TEMP	MAX FLUID TEMP
11(3)A 230Vac	50°C	88°C

3 Port Mid Position & Diverter Valves – Compression

B32_PF c/w
Detach cable

PRODUCT CODE	CONNECTION TYPE	FLOW RATE	MAX. CLOSE OFF PRESSURE
B322PF	22mm compression	4.6 kvs	1.6 bar (A) 1.2 bar (B)
B328PF	28mm compression	6.8 kvs	1.2 bar (A) 0.8 bar (B)

SWITCH RATING	MAX AMBIENT TEMP	MAX FLUID TEMP
5(2)A 230Vac	50°C	88°C

Replacement Actuators

DETACH PRO ▶

A1P & C1P c/w
Light
Detach cable
Detach button

DS1P & M1P c/w
Light
Detach cable

D1PF c/w
Detach cable

PRODUCT CODE	SWITCH RATING		REPLACEMENT FOR MODEL	
A1P	11(3)A 230Vac	2 Port	EPH V type	Horstmann F222 / F228
C1P	11(3)A 230Vac	2 Port	Honeywell V404	Horstmann Z222 / Z228
DS1P	11(3)A 230Vac	2 Port	Danfoss HP22B / HP28B / HP15B	
			Danfoss HP1.75B / HP1.0B	
			Sunvic SZ / SZM / SM	
M1P	11(3)A 230Vac	2 Port	Myson MPE22	Myson MPE28
			Myson MCZV2 3/4	Myson MCZV21
D1PF	5(2)A 230Vac	3 Port	EPH B322P / B328P	EPH B322PF / B328PF
			Honeywell V407	Horstmann Z322 / Z328

MAX AMBIENT TEMP.	MAX FLUID TEMP
50°C	88°C

Accessories

PRODUCT CODE	CABLE HARNESS FOR
CH25	2 port 5 wire actuators
CH26	2 port 6 wire actuators
CH35	3 port 5 wire actuators

Cable harness to convert Detach actuator to Detach Pro actuator.

PRODUCT CODE	DESCRIPTION
DP5M	5 Metre Detach cable for 2 port 5 wire actuators

5M

3 Port Diverter Valves – High Flow Rate

PRODUCT CODE	CONNECTION TYPE	FLOW RATE	MAX. CLOSE OFF PRESSURE
B322DIV	22mm compression	7.1 kvs	1.6 bar (A) 1.2 bar (B)
B328DIV	28mm Compression	7.6 kvs	1.2 bar (A) 0.8 bar (B)

MAX AMBIENT TEMP	MAX FLUID TEMP
50°C	88°C

3 Port Mid Position Valve – High Flow Rate

PRODUCT CODE	CONNECTION TYPE	FLOW RATE	MAX. CLOSE OFF PRESSURE
B322MID	22mm Compression	7.1 kvs	1.6 bar (A) 1.2 bar (B)
B328MID	28mm Compression	7.6 kvs	1.2 bar (A) 0.8 bar (B)

SWITCH RATING	MAX AMBIENT TEMP	MAX FLUID TEMP
5(2)A 230Vac	50°C	88°C

Programmers

1 Zone Timeswitches

PRODUCT CODE	NUMBER OF ZONES	SWITCH OUTPUT	SCREEN DIMENSIONS
A17	1	Volt Free	48 x 23 mm

PRODUCT CODE	NUMBER OF ZONES	SWITCH OUTPUT	SCREEN DIMENSIONS
R17^{V2}	1	Volt Free	100 x 35 mm

SWITCH RATING	AMBIENT TEMP	BACKPLATE	OPERATING PERIODS	PROGRAMMING MODE
3(1)A 230Vac	0 ... 50°C	6 pin	3 per day	5/2d - 7d - 24h

2 Zone Programmers

PRODUCT CODE	NUMBER OF ZONES	SWITCH OUTPUT	SCREEN DIMENSIONS
A27-HW	2	230Vac	48 x 23 mm

PRODUCT CODE	NUMBER OF ZONES	SWITCH OUTPUT	SCREEN DIMENSIONS
R27^{V2}	2	230Vac	100 x 35 mm
R27-VF	2	Volt Free	100 x 35 mm

SWITCH RATING	AMBIENT TEMP	BACKPLATE	OPERATING PERIODS	PROGRAMMING MODE
3(1)A 230Vac	0 ... 50°C	6 pin	3 per day	5/2d - 7d - 24h

3 Zone Programmers

PRODUCT CODE	NUMBER OF ZONES	SWITCH OUTPUT	SCREEN DIMENSIONS
R37^{V2}	3	230Vac	100 x 35 mm

SWITCH RATING	AMBIENT TEMP	BACKPLATE	OPERATING PERIODS	PROGRAMMING MODE
3(1)A 230Vac	0 ... 50°C	8 pin	3 per day	5/2d - 7d - 24h

4 Zone Programmer

PRODUCT CODE	NUMBER OF ZONES	SWITCH OUTPUT	SCREEN DIMENSIONS
R47^{V2}	4	230Vac	100 x 35 mm

SWITCH RATING	AMBIENT TEMP	BACKPLATE	OPERATING PERIODS	PROGRAMMING MODE
3(1)A 230Vac	0 ... 50°C	8 pin	3 per day	5/2d - 7d - 24h

EPH Controls' range of hardwired programmers offer a comprehensive solution for all zoning requirements with models available from 1 to 4 channels. With market leading functionality such as auto summer winter time, boost, advance and service interval these programmers, offer simple design functionality and are ideally suited to householders.

TIMESWITCHES

SUPPLIER	PRODUCT	TIME SWITCH	DAYS	MECH	ELEC	SERVICE TIMER	EPH REPLACEMENT
DANFOSS	GP103	•	1	•			A17 / R17V2
DANFOSS	GP103E5	•	5/2		•		A17 / R17V2
DANFOSS	GP103E7	•	7		•		A17 / R17V2
DANFOSS	TS715	•	7		•		A17 / R17V2
DANFOSS	TS715Si	•	7		•	•	A17 / R17V2
DANFOSS	TS975	•	7		•		A17 / R17V2
DANFOSS	SET 1E	•	1		•		A17 / R17V2
EPH	A17	•	1-5/2-7		•	•	
EPH	R17V2	•	1-5/2-7		•	•	
HONEYWELL	ST6100A1001	•	1		•		A17 / R17V2
HONEYWELL	ST6100C1009	•	7		•		A17 / R17V2
HONEYWELL	ST6100S1000	•	1		•	•	A17 / R17V2
HONEYWELL	ST9100A1008	•	1		•		A17 / R17V2
HONEYWELL	ST9100C1006	•	7		•		A17 / R17V2
HONEYWELL	ST9100S1007	•	1		•	•	A17 / R17V2
HORSTMANN	425 CORONET	•	1	•			A17 / R17V2
HORSTMANN	H11	•	1		•		A17 / R17V2
HORSTMANN	H17	•	7		•		A17 / R17V2
HORSTMANN	H11XL	•	1		•		A17 / R17V2
HORSTMANN	H17XL	•	7		•		A17 / R17V2
HORSTMANN	C11	•	1	•		•	A17 / R17V2
HORSTMANN	C17	•	7	•		•	A17 / R17V2
INVENSYS	TEMPUS 1	•	5/2		•		A17 / R17V2
INVENSYS	TEMPUS 2	•	7		•		A17 / R17V2
INVENSYS	LP111	•	1		•		A17 / R17V2
INVENSYS	LP711	•	7		•		A17 / R17V2
INVENSYS	LP111 Si	•	1		•	•	A17 / R17V2
INVENSYS	LP711 Si	•	7		•	•	A17 / R17V2
INVENSYS	SW.MASTER 3000	•	1	•			A17 / R17V2
INVENSYS	SM1	•	1	•			A17 / R17V2
POTTERTON	EP4000	•	1		•		A17 / R17V2
POTTERTON	EP4002	•	5/2		•		A17 / R17V2
POTTERTON	EP5002	•	7		•		A17 / R17V2
POTTERTON	MYSON MEP1C	•			•		A17 / R17V2
SIEMENS	RWB30E	•	1	•			A17 / R17V2
SIEMENS	RWB27	•	7		•		A17 / R17V2
SIEMENS	RWB7	•	7		•		A17 / R17V2
SUNVIC	SELECT 107	•	7		•		A17 / R17V2
SUNVIC	SIMPLEX 100	•	1		•	•	A17 / R17V2

A17

A27-HW

R17V2

R27V2

PROGRAMMERS

SUPPLIER	PRODUCT	MINI PROG	FULL PROG	DAYS	MECH	ELEC	SERVICE TIMER	EPH REPLACEMENT
DANFOSS	GP102	•		1	•			A27-HW / R27V2
DANFOSS	GP102E5	•		5/2		•		A27-HW / R27V2
DANFOSS	GP102E7	•		7		•		A27-HW / R27V2
DANFOSS	CP715		•	7		•		A27-HW / R27V2
DANFOSS	FP715		•	7		•		A27-HW / R27V2
DANFOSS	CP715 Si		•	7		•	•	A27-HW / R27V2
DANFOSS	FP715 Si		•	7		•	•	A27-HW / R27V2
DANFOSS	MK3 3060		•	1	•			A27-HW / R27V2
DANFOSS	MK3 4033		•	1	•			A27-HW / R27V2
DANFOSS	FP975		•	7		•		A27-HW / R27V2
DANFOSS	SET 2E	•		1		•		A27-HW / R27V2
DANFOSS	SET 3E		•	1		•		A27-HW / R27V2
DANFOSS	SET 3M		•	1	•			A27-HW / R27V2
EPH	A27-HW		•	1-5/2-7		•	•	
EPH	R27V2		•	1-5/2-7		•	•	
HONEYWELL	ST6200A1009	•		1		•		A27-HW / R27V2
HONEYWELL	ST6300A1007		•			•		A27-HW / R27V2
HONEYWELL	ST6300A1015		•	1		•		A27-HW / R27V2
HONEYWELL	ST6400A1005		•	1		•		A27-HW / R27V2
HONEYWELL	ST6400C1003		•	7		•		A27-HW / R27V2
HONEYWELL	ST6400C1052		•	7		•		A27-HW / R27V2
HONEYWELL	ST6400S1004		•	1		•	•	A27-HW / R27V2
HONEYWELL	ST699B1002		•	1		•		A27-HW / R27V2
HONEYWELL	ST799A1003		•	7		•		A27-HW / R27V2
HONEYWELL	ST9400A1002		•	1		•		A27-HW / R27V2
HONEYWELL	ST9400C1000		•	7		•		A27-HW / R27V2
HONEYWELL	ST9400S1001		•	1		•	•	A27-HW / R27V2
HONEYWELL	ST9500C1015		•	7		•		A27-HW / R27V2
HORSTMANN	425 DIADEM		•	1	•			A27-HW / R27V2
HORSTMANN	425 TIARA		•	1	•			A27-HW / R27V2
HORSTMANN	H27Z	2	7			•		A27-HW / R27V2
HORSTMANN	H21		•	1		•		A27-HW / R27V2
HORSTMANN	H27		•	7		•		A27-HW / R27V2
HORSTMANN	H21XL		•	1		•		A27-HW / R27V2
HORSTMANN	H27XL		•	7		•		A27-HW / R27V2
HORSTMANN	C21		•	1		•	•	A27-HW / R27V2
HORSTMANN	C27		•	7		•	•	A27-HW / R27V2
INVENSYS	TEMPUS 6		•	5/2		•		A27-HW / R27V2
INVENSYS	TEMPUS 7		•	7		•		A27-HW / R27V2
INVENSYS	LP112		•	1		•		A27-HW / R27V2
INVENSYS	LP241		•	1		•		A27-HW / R27V2
INVENSYS	LP522		•	5/2		•		A27-HW / R27V2
INVENSYS	LP722		•	7		•		A27-HW / R27V2
INVENSYS	LP112 Si		•	1		•	•	A27-HW / R27V2
INVENSYS	LP241 Si		•	1		•	•	A27-HW / R27V2
INVENSYS	LP522 Si		•	5/2		•	•	A27-HW / R27V2
INVENSYS	LP722 Si		•	7		•	•	A27-HW / R27V2
INVENSYS	SW.MASTER 400	•		1	•			A27-HW / R27V2
INVENSYS	SW.MASTER 600		•	1	•			A27-HW / R27V2
INVENSYS	SW.MASTER 805		•		•			A27-HW / R27V2
INVENSYS	SM2		•	1	•			A27-HW / R27V2
POTTERTON	EP6002		•	1		•		A27-HW / R27V2
POTTERTON	EP2000		•	7		•		A27-HW / R27V2
POTTERTON	EP2002		•	1		•		A27-HW / R27V2
POTTERTON	EP3002		•	5/2		•		A27-HW / R27V2
POTTERTON	MYSON MEP2C		•	7		•		A27-HW / R27V2
SIEMENS	RWB2E		•			•		A27-HW / R27V2
SIEMENS	RWB29		•	1		•		A27-HW / R27V2
SIEMENS	RWB9		•	7		•		A27-HW / R27V2
SUNVIC	SELECT 207		•	7		•		A27-HW / R27V2
SUNVIC	SIMPLEX 200		•	1		•	•	A27-HW / R27V2

Mechanical Room Thermostats

Thermostats

ErP Class I - 1%
*CM2 Combi Stat

PRODUCT CODE	SWITCH RATING	ANTICIPATOR	INDICATOR LIGHT
CM2*	10(3)A 230 & 24Vac	-	-
CM3	10(3)A 230Vac	Yes	Yes
CM3 - 24	12(4)A 24Vac	Yes	Yes

CONTACT TYPE	TEMP RANGE	IP RATING	SWITCHING DIFFERENTIAL
SPDT	5 ... 35˚C Limitable	IP20	±1˚C

Frost Thermostat

ErP Class I - 1%

PRODUCT CODE	SWITCH RATING	CONTACT TYPE	INDICATOR LIGHT
CMF	10(3)A 230Vac	SPDT	Yes

TEMPERATURE RANGE	TEMP RANGE	IP RATING	SWITCHING DIFFERENTIAL
Limitable	-5 ... 15˚C	IP20	±1˚C

Tamperproof Thermostat

ErP Class I - 1%

PRODUCT CODE	SWITCH RATING	CONTACT TYPE	INDICATOR LIGHT
CMT	10(3)A 230 & 24Vac	SPDT	-

TEMPERATURE RANGE	TEMP RANGE	IP RATING	SWITCHING DIFFERENTIAL
Limitable	5 ... 35˚C	IP20	±1˚C

Thermostat with On/Off Switches

ErP Class I - 1%

PRODUCT CODE	SWITCH RATING	ON/OFF SWITCH	INDICATOR LIGHT
CM2S	10(3)A 230 & 24Vac	Yes	-
CM3S	10(3)A 230Vac	Yes	Yes

CONTACT TYPE	TEMP RANGE	IP RATING	SWITCHING DIFFERENTIAL
SPDT	10 ... 30˚C	IP20	±1˚C

Intermediate Plate

PRODUCT CODE	DIMENSIONS
SMB	95 x 95 mm

FOR USE WITH PRODUCTS

CM2, CM3, CM3-24, CMF, CMT, CDT2, CDT2-24, CRT2, CDTP2, CRTP2.

Pipe / Cylinder Thermostats

PRODUCT CODE	SETPOINT ADJUSTMENT	SWITCH RATING	CONTACT TYPE
WRP	External	16(4)A 230Vac	SPDT
WRP-TP	Internal (Tamperproof)	16(4)A 230Vac	SPDT

SENSOR TYPE	TEMP RANGE	IP RATING	SWITCHING DIFFERENTIAL
Gas filled	0 ... 90˚C	IP20	±5˚C

Immersion Thermostats

PRODUCT CODE	SETPOINT ADJUSTMENT	SWITCH RATING	CONTACT TYPE
WRP-IM	External	16(4)A 230Vac	SPDT
WRP-IM-TP	Internal (Tamperproof)	16(4)A 230Vac	SPDT

SENSOR TYPE	TEMP RANGE	IP RATING	SWITCHING DIFFERENTIAL
Gas filled	0 ... 90˚C	IP20	±5˚C

Dual Thermostat with Manual Reset

PRODUCT CODE	SETPOINT ADJUSTMENT	SWITCH RATING	SWITCH OUTPUT
DBS	External	16(4)A	SPDT

SENSOR TYPE	HIGH LIMIT STAT	TEMP RANGE	SWITCHING DIFFERENTIAL
Liquid filled	110˚C	0 ... 90˚C	6±2˚C

Outside Frost Thermostat

PRODUCT CODE	DESCRIPTION	SWITCH RATING	TEMP RANGE
C10C2RIYS1	Internal Setpoint Adj.	15(2.5)A 230Vac	-35˚C ... 20˚C

SWITCH OUTPUT	MAX. AMBIENT TEMP
SPDT Volt Free	50˚C

Frost Thermostat Controller

PRODUCT CODE	DESCRIPTION	SWITCH RATING	TEMP RANGE
EPH-FSC	Frost stat controller	8A 230Vac	-

SWITCH OUTPUT	MAX. AMBIENT TEMP
SPDT Volt Free	50˚C

*   Saves energy by running the circulating pump without firing the boiler when the outside frost thermostat calls for heat.

Room Thermostats

Surface Mounted Thermostats

NEW

ErP Class IV = 2%
Delay start & On / Off control

PRODUCT CODE	POWER SUPPLY	SWITCH RATING	CONTACT TYPE
CDT2	230Vac ±10%	7A 230Vac	SPDT Volt Free
CDT2-24	24Vac ±10%	7A 24Vac	SPDT Volt Free

SENSOR TYPE	TEMP RANGE	ADJ. SWITCHING DIFFERENTIAL
NTC100K	5 ... 35˚C	0.2 ... 1.0˚C

NEW

ErP Class IV = 2%
Delay start & On / Off control

PRODUCT CODE	POWER SUPPLY	SWITCH RATING	CONTACT TYPE
CRT2	2 x AA Batteries (Incl.)	8A 230Vac	SPDT Volt Free

SENSOR TYPE	TEMP RANGE	ADJ. SWITCHING DIFFERENTIAL
NTC100K	5 ... 35˚C	0.2 ... 1.0˚C

Dial Thermostats with Setback Function

NEW

ErP Class IV = 2%
Delay start & On / Off control

PRODUCT CODE	POWER SUPPLY	SWITCH RATING	CONTACT TYPE
HDT	230Vac ± 10%	7A 230Vac	SPST
HRT	2 x AA Batteries (Incl)	8A 230Vac	SPST

SENSOR TYPE	TEMP RANGE	ADJ. SWITCHING DIFFERENTIAL	SPECIAL FUNCTION
NTC100K	5 ... 35˚C	0 ... 1.0˚C	Delay Start / TPI / Setback Function

Recessed Thermostat with Setback Function

NEW

ErP Class IV = 2%
Delay start & On / Off control

PRODUCT CODE	POWER SUPPLY	SWITCH RATING	CONTACT TYPE
RDT	230Vac ± 10%	10 (3)A 230Vac	SPDT

SENSOR TYPE	TEMP RANGE	ADJ. SWITCHING DIFFERENTIAL	SPECIAL FUNCTION
NTC100K	5 ... 35˚C	0 ... 1.0˚C	Delay Start / TPI / Setback Function

Surface Mounted Programmable Thermostats

ErP Class V= 3%   On / Off control

PRODUCT CODE	POWER SUPPLY	SWITCH RATING	CONTACT TYPE
CP4M	230Vac ±10%	8A 230Vac	SPDT Volt Free

SENSOR TYPE	TEMP RANGE	ADJ. SWITCHING DIFFERENTIAL	PROGRAMMING MODE
NTC100K	5 ... 35°C	0.2 ... 1.0°C	5/2d - 7d - 24h

ErP Class IV = 2%   On / Off control

PRODUCT CODE	POWER SUPPLY	SWITCH RATING	CONTACT TYPE
CDTP2	230Vac ±10%	8A 230Vac	SPDT Volt Free

SENSOR TYPE	TEMP RANGE	ADJ. SWITCHING DIFFERENTIAL	PROGRAMMING MODE
NTC100K	5 ... 35°C	0.2 ... 1.0°C	5/2d - 7d - 24h

NEW

ErP Class V= 3%   On / Off control

PRODUCT CODE	POWER SUPPLY	SWITCH RATING	CONTACT TYPE
CP4B	2 x AA Batteries (Incl.)	7A 230Vac	SPDT Volt Free

SENSOR TYPE	TEMP RANGE	ADJ. SWITCHING DIFFERENTIAL	PROGRAMMING MODE
NTC100K	5 ... 35°C	0.2 ... 1.0°C	5/2d - 7d - 24h

ErP Class IV = 2%   On / Off control

PRODUCT CODE	POWER SUPPLY	SWITCH RATING	CONTACT TYPE
CRTP2	2 x AA Batteries (Incl.)	8A 230Vac	SPDT

SENSOR TYPE	TEMP RANGE	ADJ. SWITCHING DIFFERENTIAL	PROGRAMMING MODE
NTC100K	5 ... 35°C	0.2 ... 1.0°C	5/2d - 7d - 24h

Recessed Programmable Thermostat

ErP Class IV = 2%

NEW

PRODUCT CODE	POWER SUPPLY	SWITCH RATING	SWITCH OUTPUT
RDTP	230Vac ±10%	10(3)A 230Vac	SPDT Volt Free

SENSOR TYPE	TEMP RANGE	ADJ. SWITCHING DIFFERENTIAL	SPECIAL FUNCTION
NTC 100K Internal	5...35°C	0 ... 1.0°C	Optimum Start / TPI / Remote Sensor Compatible

ACCESSORIES CODE	DESCRIPTION
NTC 10K	NTC 10K Cable Sensor, 1.5M
NTC Housing	Cable Sensor Housing

Introducing
2 Zone
New build
Heating
Control Packs

NEW BUILD PACK C00P-222A01

2x CP4M

Mains Operated
Programmable Thermostats

2x V222P

2 Port 22mm
Motorised Valves

1x WC2

12 Way
Wiring Centre

NEW BUILD PACK C00P-222B01

2x CP4B

Battery Powered
Programmable Thermostats

2x V222P

2 Port 22mm
Motorised Valves

1x WC2

12 Way
Wiring Centre

ErP Class **V** | +3%   When used with OpenTherm®   ErP Class **IV** | +2%   Standard installation connected via TPi

Y Plan Heating Control Packs

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTATS		WIRING CENTRE
CA22P	A27-HW	B322PF	CM2	WRP	WC2
CA28P	A27-HW	B328PF	CM2	WRP	WC2

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTATS		WIRING CENTRE
CR22P	R27^{V2}	B322PF	CM2	WRP	WC2
CR28P	R27^{V2}	B328PF	CM2	WRP	WC2

1 Zone Heating Control Packs

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTATS		WIRING CENTRE
CR1P-222101	R17^{V2}	V222P x 2	RDTP x 2	-	WC2
CR1P-282301	R17^{V2}	DS222P x 2	CM3 x 2	-	WC2
CR1P-231901 (CP-GEG03)	R17^{V2}	V228P	CP4	-	WC2

S Plan Heating Control Packs

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTATS		WIRING CENTRE
CA222P	A27-HW	V222P x 2	CM2	WRP	WC2
CA228P	A27-HW	V228P x 2	CM2	WRP	WC2

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTATS		WIRING CENTRE
CR222P	R27^{V2}	V222P x 2	CM2	WRP	WC2
CR228P	R27^{V2}	V228P x 2	CM2	WRP	WC2

2 Zone Heating Control Packs

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTATS		WIRING CENTRE
CR2P-221311	R27^{V2}	V222P x 2	CM3	WRP	WC2
CR2P-221341	R27^{V2}	V222P x 2	CM3	WRP-IM-TP	WC2
CR2P-221351	R27^{V2}	V222P x 2	CM3	WRP-TP	WC2
CR2P-281211	R27^{V2}	DS222P x 2	CM2	WRP	WC2
CR2P-282301	R27^{V2}	DS222P x 2	CM3 x 2	-	WC2

S Plan Unvented Heating Control Packs

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTATS		WIRING CENTRE
CA222PU	A27-HW	V222P	CM2	-	WC2
CA228PU	A27-HW	V228P	CM2	-	WC2

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTATS		WIRING CENTRE
CR222PU	R27^{V2}	V222P	CM2	-	WC2
CR228PU	R27^{V2}	V228P	CM2	-	WC2

2 Zone Combi Zoning Heating Control Packs

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTATS		WIRING CENTRE
C00P-222101	-	V222P x 2	RDTP x 2	-	WC2
C00P-222701	-	V222P x 2	CDTP2 x 2	-	WC2
C00P-222801	-	V222P x 2	CRTP2 x 2	-	WC2
C00P-222901	-	V222P x 2	CP4 x 2	-	WC2
C00P-222A01	-	V222P x 2	CP4M x 2	-	WC2
C00P-222B01	-	V222P x 2	CP4B x 2	-	WC2
C00P-232A00	-	V228P x 2	CP4M x 2	-	-
C00P-282B01	-	DS222P x 2	CP4B x 2	-	WC2

Pictures for reference only, thermostats will differ in packs.

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTATS		WIRING CENTRE
CR2P-222201	R27^{V2}	V222P x 2	CM2 x 2	-	WC2
CR2P-222301	R27^{V2}	V222P x 2	CM3 x 2	-	WC2
CR2P-282201	R27^{V2}	DS222P x 2	CM2 x 2	-	WC2
CR2P-282301	R27^{V2}	DS222P x 2	CM3 x 2	-	WC2
CR2P-282401	R27^{V2}	DS222P x 2	CDT2 x 2	-	WC2

Priority Hot Water Pack

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTATS		WIRING CENTRE
C00P-221981	-	V222P x 2	CP4	CP4-HW	WC2

3 Zone Heating Control Packs

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTATS		WIRING CENTRE
CR322P	R37^{V2}	V222P x 3	CM2 x 2	WRP	WC2
CR328P	R37^{V2}	V228P x 3	CM2 x 2	WRP	WC2

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTATS		WIRING CENTRE
CR3P-222301	R37^{V2}	V222P x 2	CM3 x 2	-	WC2
CR3P-282301	R37^{V2}	DS22P x 2	CM3 x 2	-	WC2
CR3P-282401	R37^{V2}	V222P x 2	CDT2 x 2	-	WC2
CR3P-322301	R37^{V2}	V222P x 3	CM3 x 2	-	WC2
CR3P-382211	R37^{V2}	DS222P x 3	CM2 X 2	WRP	WC2

BOX QTY 6 | SI | CE | UKCA

3 Zone Unvented Heating Control Packs

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTATS		WIRING CENTRE
CR322PU	R37^{V2}	V222P x 2	CM2 x 2	-	WC2
CR328PU	R37^{V2}	V228P x 2	CM2 x 2	-	WC2

BOX QTY 6 | SI | CE | UKCA

3 Zone Combi Zoning Heating Control Packs

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTATS		WIRING CENTRE
COOP-323A01	-	V222P x 3	CP4M x 3	-	WC2
COOP-323101	-	V222P x 3	RDTP x 3	-	WC2
COOP-323701	-	V222P x 3	CDTP2 x 3	-	WC2
COOP-323801	-	V222P x 3	CRTP2 x 3	-	WC2
CR3P-323201	R37^{V2}	V222P x 3	CM2 x 3	-	WC2
CR3P-323301	R37^{V2}	V222P x 3	CM3 x 3	-	WC2

Pictures for reference only, thermostats will differ in packs.

BOX QTY 6 | SI | CE | UKCA

4 Zone Heating Control Packs

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTATS		WIRING CENTRE
CR422P	R47^{V2}	V222P x 4	CM2 x 3	WRP	WC2
CR428P	R47^{V2}	V228P x 4	CM2 x 3	WRP	WC2

4 Zone Unvented Heating Control Packs

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTATS		WIRING CENTRE
CR422PU	R47^{V2}	V222P x 3	CM2 x 3	-	WC2
CR428PU	R47^{V2}	V228P x 3	CM2 x 3	-	WC2

Wiring Centres

PRODUCT CODE	INTERNALLY MOUNTED
WC2	12 Block Connector Strip
WC3	16 Block Connector Strip

Wiring Centres with PCB

PRODUCT CODE	INTERNALLY MOUNTED	WIRING DIAGRAMS
WCA	PCB c/w Screw Terminals	S-Plan or 3 Zone System
WCC	PCB c/w Screw Terminals	2 or 3 Zone System (Heat only)
WCD	PCB c/w Screw Terminals **	S-Plan or 3 Zone System Separate Hot Water and Heating outputs.

** Suitable for Boiler with Weather Compensation.

Wiring Diagram for WCA

If mains switching is required please link PL to AUX COM.

R37�V2   Spur fused @ 3A
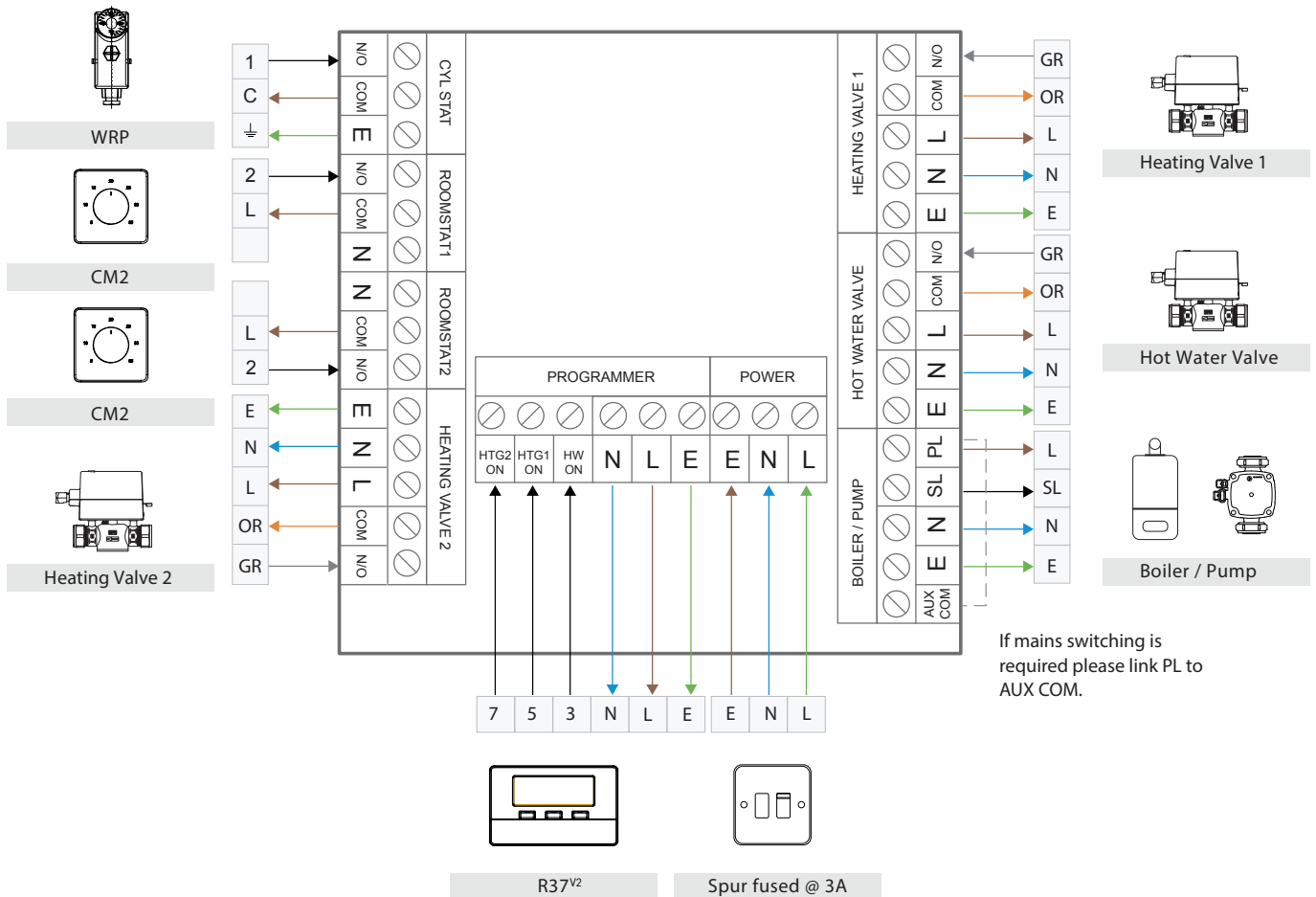
Radiator Controls

TRV Single Pack – Chrome Angled

PRODUCT CODE	CONNECTION TYPE	BI DIRECTIONAL
CTRV15C	15mm Compression	Yes

SENSOR TYPE	TEMP RANGE	MAX. DIFFERENTIAL PRESSURE
Liquid filled	7 ... 28˚C	0.6bar

TRV Twin Pack – Chrome Angled

PRODUCT CODE	CONNECTION TYPE	BI DIRECTIONAL
EMTRV15C	15mm Compression	Yes

SENSOR TYPE	TEMP RANGE	MAX. DIFFERENTIAL PRESSURE
Liquid filled	7 ... 28˚C	0.6bar

TRV Twin Pack – Chrome Straight

PRODUCT CODE	CONNECTION TYPE	BI DIRECTIONAL
SEMTRV15C	15mm Compression	Yes

SENSOR TYPE	TEMP RANGE	MAX. DIFFERENTIAL PRESSURE
Liquid filled	7 ... 28˚C	0.6bar

TRV Single Pack – Angled

PRODUCT CODE	CONNECTION TYPE	BI DRECTIONAL	ACCESSORIES
CTRV10	10mm Compression	Yes	-
CTRV15	15mm Compression	Yes	1 x 1/2˝ olive

SENSOR TYPE	TEMP RANGE	MAX. DIFFERENTIAL PRESSURE
Liquid filled	7 ... 28˚C	0.6 bar

TRV Single Pack – Angled Push Fit

PRODUCT CODE	CONNECTION TYPE	BI DRECTIONAL	ACCESSORIES
CTRV15PF	15mm Push fit	No	-

SENSOR TYPE	TEMP RANGE	MAX. DIFFERENTIAL PRESSURE
Liquid filled	7 ... 28˚C	0.6 bar

TRV Twin Pack – Angled for 16mm Multi Layer Pipe

PRODUCT CODE	CONNECTION TYPE	BI DRECTIONAL	ACCESSORIES
EMTRVMLP	16mm Multi layer pipe	Yes	-

SENSOR TYPE	TEMP RANGE	MAX. DIFFERENTIAL PRESSURE
Liquid filled	7 ... 28˚C	0.6 bar

TRV Twin Pack – Angled

PRODUCT CODE	CONNECTION TYPE	BI DRECTIONAL	ACCESSORIES
EMTRV10	10mm Compression	Yes	-
EMTRV15	15mm Compression	Yes	2 x 1/2" olives

SENSOR TYPE	TEMP RANGE	MAX. DIFFERENTIAL PRESSURE
Liquid filled	7 ... 28˚C	0.6 bar

TRV Twin Pack – Angled with Lockshield Drain Off Valve

PRODUCT CODE	CONNECTION TYPE	BI DRECTIONAL
EMTRV10DOV	10mm Compression	Yes
EMTRV15DOV	15mm Compression	Yes

SENSOR TYPE	TEMP RANGE	MAX. DIFFERENTIAL PRESSURE
Liquid filled	7 ... 28˚C	0.6 bar

TRV Twin Pack – Straight

PRODUCT CODE	CONNECTION TYPE	BI DRECTIONAL
SEMTRV15	15mm Compression	No

SENSOR TYPE	TEMP RANGE	MAX. DIFFERENTIAL PRESSURE
Liquid filled	7 ... 28˚C	0.6 bar

Lockshield Valves

PRODUCT CODE	CONNECTION TYPE	BI DRECTIONAL	DESCRIPTION
LSV10	10mm Compression	Yes	Lockshield valve
LSV15	15mm Compression	Yes	Lockshield valve
LSVMLP	16mm Multi layer pipe	Yes	Lockshield valve
LSV15PF	15mm Push fit	No	Lockshield valve

TEMP RANGE	MAX. DIFFERENTIAL PRESSURE
7 ... 28˚C	0.6 bar

Drain Off Valve

PRODUCT CODE	DESCRIPTION	PACK QUANTITY
DOV	15mm Drain off valve	1 piece

Reduced Mobility Accessory

PRODUCT CODE	DESCRIPTION
RMA	Reduced Mobility Accessory for EPH TRVs

Lockshield Drain Off Valves

PRODUCT CODE	DESCRIPTION	PACK QUANTITY
LSDOV10	10mm Lockshield drain off valve	1 piece
LSDOV15	15mm Lockshield drain off valve	1 piece

Push Fit Elbow

PRODUCT CODE	DESCRIPTION	PACK QUANTITY
PFE10	15mm x 10mm Push fit elbow	2 pieces
PFE15	15mm x 15mm Push fit elbow	2 pieces

10mm Reducer

PRODUCT CODE	DESCRIPTION	PACK QUANTITY
RED10	10mm Reducer	20 pieces

TRV Body – 15mm Compression

PRODUCT CODE	CONNECTION TYPE	BI DIRECTIONAL
TRVB15	15mm Compression	Yes

Max. Differential Pressure: 0.6 bar

Thermal Actuators

For use with: TRVB15

PRODUCT CODE	POWER SUPPLY	ACTUATOR TYPE	RUNNING TIME	AUXILIARY SWITCH
TA24	24Vac	Normally Open or Closed	4.5 min	-
TA230	230Vac	Normally Open or Closed	3.5 min	-
TA230S	230Vac	Normally Closed	4.5 min	Yes

MAX. STROKE	AMBIENT TEMP RANGE	SPRING PRESSURE	VALVE CONNECTION
3.5mm	0 ... 50˚C	125N	M30x1.5

Thermostatic Heads

PRODUCT CODE	CONNECTION TYPE	DESCRIPTION
TRV	M30 x 1.5	Thermostatic head white
TRVCH	M30 x 1.5	Thermostatic head chrome

TEMP RANGE	MAX. DIFFERENTIAL PRESSURE
7 ... 28˚C	0.6 bar

Thermostatic Mixing Valves   Point of Use, In Line

PRODUCT CODE	VALVE SIZE	FLOW RATE	MAX STATIC PRESSURE	APPLICATION
TMV15C	15mm	1.1Kvs	10 Bar	Point of Use
TMV22C	22mm	1.1Kvs	10 Bar	Point of Use

SETTING RANGE	HOT & COLD FLOW HIGH PRESSURE	HOT & COLD FLOW LOW PRESSURE	CONNECTION
30...50°C	1.0-5 Bar	0.2-1 Bar	Compression

Create control packs to suit your own specific requirements

Hardwired Control Pack Coding System

CONTROL PACK	PROGRAMMER		MOTORISED VALVES		ROOM STATS		CYLINDER STATS	WIRING CENTRE
CODE	TYPE	-	QTY	MODEL	QTY	MODEL	MODEL	MODEL
C0	0P = None	-	0 = 0	0 = None	0 = 0	0 = None	0 = None	0 = None
C	A1P = A17	-	1 = 1	1 = V221P	1 = 1	1 = RDTP	1 = WRP	1 = WC2
C	A2P = A27-HW	-	2 = 2	2 = V222P	2 = 2	2 = CM2	2 = CDC2	2 = WC3
CR	1P = R17^{V2}	-	3 = 3	3 = V228P	3 = 3	3 = CM3	3 = WRP-IM	3 = WCA
CR	2P = R27^{V2}	-	4 = 4	4 = V222FP	4 = 4	4 = CDT2	4 = WRP-IM-TP	4 = WCB
CR	3P = R37^{V2}	-		5 = V228FP		5 = CMT	5 = WRP-TP	
CR	4P = R47^{V2}	-		6 = B322PF		6 = CRT2	6 = DBS	
		-		7 = B328PF		7 = CDTP2	7 = EDBS	
		-		8 = DS222P		8 = CRTP2	8 = CP4-HW-OT	
						9 = CP4		
						A = CP4M		
						B = CP4B		
						C = HRT		
						D = HDT		
						E = RDT		

RF Control Pack Coding System

CONTROL PACK	PROGRAMMER		MOTORISED VALVES		ROOM STATS		CYLINDER STATS	WIRING CENTRE
CODE	TYPE	-	QTY	MODEL	QTY	MODEL	MODEL	MODEL
C0	0P = None	-	0 = 0	0 = None	0 = 0	0 = None	0 = None	0 = None
CRF	1P = R17-RF	-	1 = 1	1 = V221P	1 = 1	2 = RFR	1 = RFC	1 = WC2
CRF	2P = R27-RF	-	2 = 2	2 = V222P	2 = 2	3 = CM2	2 = WRP	2 = WC3
CRF	3P = R37-RF	-	3 = 3	3 = V228P	3 = 3	4 = CM3	3 = WRP-IM	3 = WCA
CRF	4P = R47-RF	-	4 = 4	4 = V222FP	4 = 4	5 = RFRB	4 = WRP-IM-TP	4 = WCB
				5 = V228FP		6 = CP4	5 = WRP-TP	
				6 = B322PF			6 = DBS	
				7 = B328PF			7 = RFCDBS	
				8 = DS222P			8 = EDBS	
							9 = CDC	
							A = CP4-HW-OT	

Iconography

3 On/Off periods	EMBER App Compatible	Mains operated
5 year warranty	Frost protection	Max 30M distance
Battery operated	Indicator light	Motor made in USA
Cable sensor	Keypad lock	Open Therm
Detachable actuator	Limitable temperature range	Legionnaires function

Contact Details

Dedicated Installer Helpline: 01933 322 072

Alan Busby
National Sales Manager
07872 470 041
alanbusby@ephcontrols.co.uk

Bradley Hicks
Southern Sales Manager
07711 378 701
bradleyhicks@ephcontrols.co.uk

Craig Ratcliffe
New Build & Spec. Manager
07423 275 349
craigratcliffe@ephcontrols.co.uk

12 Mark Harris
Area Sales Manager
07718 578 816
markharris@ephcontrols.com

1 Tom King
Area Sales Manager
07834 452 537
tomking@ephcontrols.co.uk

2 Charles Noble
Area Sales Manager
07340 107 485
charlesnoble@ephcontrols.co.uk

3 Martin White
Area Sales Manager
07702 737 463
martinwhite@ephcontrols.co.uk

4 Rob Fenton
Area Sales Manager
07392 036 770
robfenton@ephcontrols.co.uk

5 Matt Cudworth
Area Sales Manager
07444 336 164
matthewcudworth@ephcontrols.co.uk

6 Karl Foote
OEM & Business Dev. Manager
07387 661 250
karlfoote@ephcontrols.co.uk

7 AJ Kalirai
Area Sales Manager
07780 914 565
ajkalirai@ephcontrols.co.uk

8 George Daly
Area Sales Manager
07552 341 283
georgedaly@ephcontrols.co.uk
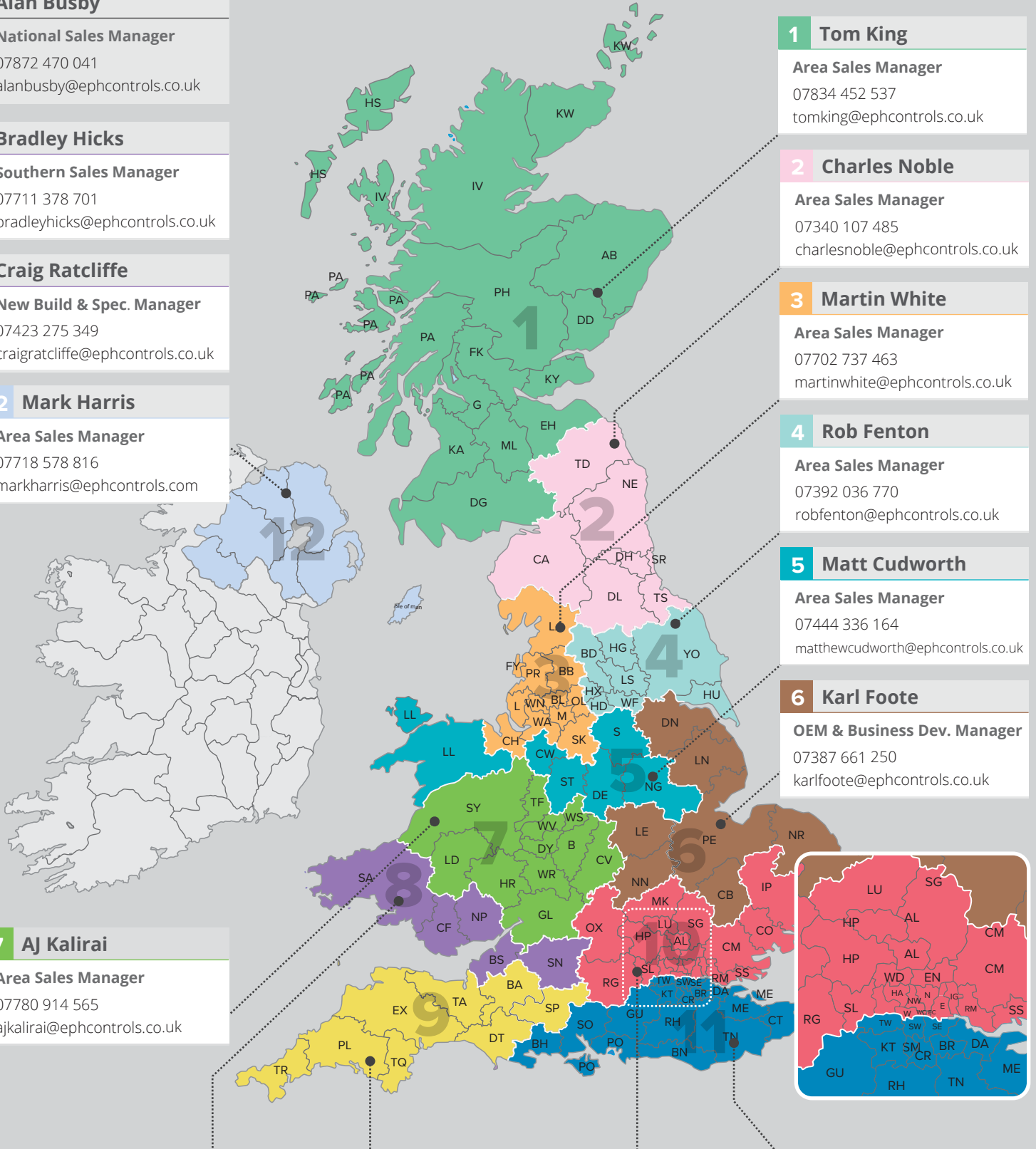
9 Jamie Boone
Area Sales Manager
07502 380 406
jamieboone@ephcontrols.co.uk

10 Steven Dowd
Area Sales Manager
07392 154 063
stevendowd@ephcontrols.co.uk

11 Lee Mumford
Area Sales Manager
07720 635 084
leemumford@ephcontrols.co.uk

eph_controls   EPHcontrols   EPH EMBER   EPH EMBER   EPH Controls