EPH
CONTROLS

Residential Heating Controls

2020 UK CATALOGUE

Commitment

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For 23 years, EPH have been supplying state of the art products to the residential, commercial and pharmaceutical markets.

In our 2020 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 BoilerPlus 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 CombiPack4 (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.

The new CP4i, smart thermostat has now been launched based on the success of the CombiPack4 (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 12 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

For more information please visit
www.ephcontrols.co.uk

EPH Controls' range of motorised valves offer market leading functionality. All 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 Valve – Compression

V22_P

*DS222P
Bi-directional valve

These two port valves come with light, detach button and 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 Valve – Female BSP

These two port valves come with light, detach button and detach cable.

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 Valve – Compression

These 3 port valves come with a detach cable.
[A] = Port A, [B] = Port B

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 Actuator

M1P   DS1P

These two port valve actuators come with light, detach button and 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
D1PF	5(2)A 230Vac	3 Port	EPH B322P / B328P	EPH B322PF / B328PF
			Honeywell V407	Horstmann Z322 / Z328
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

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

Accessories

Cable harness to convert Detach actuator to Detach Pro actuator.

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

5M

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

Thermostatic Mixing Valves

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

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

Y Plan Heating Control Pack
BOX QTY 6 · CE

PRODUCT CODE	COMPRESSION MOTORISED VALVE	PROGRAMMER	THERMOSTAT		WIRING CENTRE
CA22P	B322PF x 1	A27-HW x 1	CM2 x 1	WRP x 1	WC2 x1
CA28P	B328PF x 1	A27-HW x 1	CM2 x 1	WRP x 1	WC2 x1

PRODUCT CODE	COMPRESSION MOTORISED VALVE	PROGRAMMER	THERMOSTAT		WIRING CENTRE
CR22P	B322PF x 1	R27-HW x 1	CM2 x 1	WRP x 1	WC2 x1
CR28P	B328PF x 1	R27-HW x 1	CM2 x 1	WRP x 1	WC2 x1

S Plan Heating Control Pack
BOX QTY 6 · CE

PRODUCT CODE	COMPRESSION MOTORISED VALVE	PROGRAMMER	THERMOSTAT		WIRING CENTRE
CA222P	V222P x 2	A27-HW x 1	CM2 x 1	WRP x 1	WC2 x 1
CA228P	V228P x 2	A27-HW x 1	CM2 x 1	WRP x 1	WC2 x 1

PRODUCT CODE	COMPRESSION MOTORISED VALVE	PROGRAMMER	THERMOSTAT		WIRING CENTRE
CR222P	V222P x 2	R27-HW x 1	CM2 x 1	WRP x 1	WC2 x 1
CR228P	V228P x 2	R27-HW x 1	CM2 x 1	WRP x 1	WC2 x 1

S Plan Unvented Heating Control Pack
BOX QTY 6 · CE

PRODUCT CODE	COMPRESSION MOTORISED VALVE	PROGRAMMER	THERMOSTAT		WIRING CENTRE
CA222PU	V222P x 1	A27-HW x 1	CM2 x 1	-	WC2 x 1
CA228PU	V228P x 1	A27-HW x 1	CM2 x 1	-	WC2 x 1

PRODUCT CODE	COMPRESSION MOTORISED VALVE	PROGRAMMER	THERMOSTAT		WIRING CENTRE
CR222PU	V222P x 1	R27-HW x 1	CM2 x 1	-	WC2 x 1
CR228PU	V228P x 1	R27-HW x 1	CM2 x 1	-	WC2 x 1

2 Zone Combi Zoning Control Pack
BOX QTY 6 · CE

PRODUCT CODE	COMPRESSION MOTORISED VALVE	PROGRAMMER	THERMOSTAT		WIRING CENTRE
COOP-222A01	V222P x 2	-	CP4M x 2	-	WC2 x1
COOP-222101	V222P x 2	-	RS1 x 2	-	WC2 x1
COOP-222701	V222P x 2	-	CDTP2 x 2	-	WC2 x1
COOP-222801	V222P x 2	-	CRTP2 x 2	-	WC2 x1
COOP-222901	V222P x 2	-	CombiPack4 x 2	-	WC2 x1
CR5P-222201	V222P x 2	R27 x 1	CM2 x 2	-	WC2 x1
CR5P-222301	V222P x 2	R27 x 1	CM3 x 2		WC2 x1

Pictures for reference only, thermostats will differ in packs.

3 Zone Heating Control Pack
BOX QTY 6 · CE

PRODUCT CODE	COMPRESSION MOTORISED VALVE	PROGRAMMER	THERMOSTAT		WIRING CENTRE
CR322P	V222P x 3	R37-HW x 1	CM2 x 2	WRP x 1	WC2 x1
CR328P	V228P x 3	R37-HW x 1	CM2 x 2	WRP x 1	WC2 x1

3 Zone Unvented Heating Control Pack
BOX QTY 6 · CE

PRODUCT CODE	COMPRESSION MOTORISED VALVE	PROGRAMMER	THERMOSTAT		WIRING CENTRE
CR322PU	V222P x 2	R37-HW x 1	CM2 x 2	-	WC2 x1
CR328PU	V228P x 2	R37-HW x 1	CM2 x 2	-	WC2 x1

3 Zone Combi Zoning Control Pack
BOX QTY 6 · CE

PRODUCT CODE	COMPRESSION MOTORISED VALVE	PROGRAMMER	THERMOSTAT		WIRING CENTRE
COOP-323A01	V222P x 3	-	CP4M x 3	-	WC2 x1
COOP-323101	V222P x 3	-	RS1 x 3	-	WC2 x1
COOP-323701	V222P x 3	-	CDTP2 x 3	-	WC2 x1
COOP-323801	V222P x 3	-	CRTP2 x 3	-	WC2 x1
CR6P-323201	V222P x 3	R37 x 1	CM2 x 3	-	WC2 x1
CR6P-323301	V222P x 3	R37 x 1	CM3 x 3	-	WC2 x1

Pictures for reference only, thermostats will differ in packs.

4 Zone Heating Control Pack
BOX QTY 6 · CE

PRODUCT CODE	COMPRESSION MOTORISED VALVE	PROGRAMMER	THERMOSTAT		WIRING CENTRE
CR422P	V222P x 4	R47 x 1	CM2 x 3	WRP x 1	WC2 x1
CR428P	V228P x 4	R47 x 1	CM2 x 3	WRP x 1	WC2 x1

4 Zone Unvented Heating Control Pack
BOX QTY 6 · CE

PRODUCT CODE	COMPRESSION MOTORISED VALVE	PROGRAMMER	THERMOSTAT		WIRING CENTRE
CR422PU	V222P x 3	R47 x 1	CM2 x 3	-	WC2 x1
CR428PU	V228P x 3	R47 x 1	CM2 x 3	-	WC2 x1

Wiring Centre
BOX QTY 6 · CE

PRODUCT CODE	TERMINALS
WC2	12
WC3	16

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 are still easy to use. All units also come with the EPH Controls 5 year warranty.

1 Zone Timeswitch

PRODUCT CODE	NUMBER OF CHANNELS	SWITCH OUTPUT	SCREEN DIMENSIONS
A17	1	Volt Free	48 x 23 mm
R17	1	Volt Free	100 x 35 mm

Programming Mode: 5/2d - 7d - 24h

SWITCH RATING	AMBIENT TEMP RANGE	BACKPLATE TYPE	OPERATING PERIODS
3(1)A 230Vac	0-50°C	6 pin	3 per day

2 Zone Programmer

PRODUCT CODE	NUMBER OF CHANNELS	SWITCH OUTPUT	SCREEN DIMENSIONS
A27-HW	2	230Vac	48 x 23 mm
R27	2	230Vac	100 x 35 mm
R27-HW	2	230Vac	100 x 35 mm
R27-VF	2	Volt Free	100 x 35 mm

Programming Mode: 5/2d - 7d - 24h

SWITCH RATING	AMBIENT TEMP RANGE	BACKPLATE TYPE	OPERATING PERIODS
3(1)A 230Vac	0-50°C	6 pin	3 per day

3 Zone Programmer

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

Programming Mode: 5/2d - 7d - 24h

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

4 Zone Programmer

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

Programming Mode: 5/2d - 7d - 24h

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

Room Thermostat

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

Room Frost Thermostat

ErP Class I - 1%

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

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

Tamperproof Room 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

Intermediate Plate

PRODUCT CODE	DIMENSION
SMB	95 x 95 mm

FOR USE WITH PRODUCTS

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

Room Thermostat with On/Off Switch

ErP Class I - 1%

PRODUCT CODE	SWITCH RATING	ON/OFF SWITCH	INDICATOR LIGHT
TM2S	10(3)A 230 & 24Vac	Yes	-
TM3S	10(3)A 230Vac	Yes	Yes

CONTACT TYPE	TEMP RANGE	IP RATING	SWITCHING DIFFERENTIAL
SPDT	10-30°C	IP20	±1°C

Pipe / Cylinder Thermostat

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 Thermostat

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
EPH-FSC	Frost stat controller	8A 230Vac	-

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

Mains Operated Non Programmable Thermostat

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

PRODUCT CODE	POWER SUPPLY	SWITCH RATING	CONTACT TYPE
CDT2	230Vac ±10%	8A 230Vac	SPDT Volt Free
CDT2-24	24Vac ±10%	8A 24Vac	SPDT Volt Free

SENSOR TYPE	AMBIENT TEMP RANGE	ADJUSTABLE SWITCHING DIFFERENTIAL
NTC10K	5-35˚C	0.2 - 1.0˚C

Battery Operated Non Programmable Thermostat

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	ADJUSTABLE SWITCHING DIFFERENTIAL
NTC10K	5-35˚C	0.2 - 1.0˚C

Digital Cylinder Thermostat with High Limit

	PRODUCT CODE	POWER SUPPLY	SWITCH RATING	CONTACT TYPE
NEW	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
NEW	BST	230Vac ± 10%	13A 230Vac	3 Kw

TIME PERIOD
15min, 30min, 1hr, 2hr, 4hr & 6hr

Digital Room Thermostats

CP4i Smart thermostat

WARRANTY STANDARD 5 Years

Mains Operated Programmable Thermostat

BOILER PLUS

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

ErP Class V= 1%   On / Off control

SENSOR TYPE	TEMP RANGE	ADJUSTABLE SWITCHING DIFFERENTIAL	PROGRAMMING MODE
NTC10K	5-35°C	0.2-1.0°C	5/2 Day

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

ErP Class I = 1%   On / Off control

SENSOR TYPE	TEMP RANGE	ADJUSTABLE SWITCHING DIFFERENTIAL	PROGRAMMING MODE
NTC10K	5-35°C	0.2-1.0°C	5/2 Day

Mains Operated Programmable Recessed Thermostat

PRODUCT CODE	POWER SUPPLY	SWITCH RATING	SWITCH OUTPUT
RS1	230Vac ±10%	3A 230Vac	SPDT Volt Free

NEW

SENSOR TYPE	TEMP RANGE	ADJUSTABLE SWITCHING DIFFERENTIAL
NTC10K	5-35°C	0.2-1°C

ErP Class IV = 2%

Battery Operated Programmable Thermostat

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

ErP Class I = 1%   On / Off control

SENSOR TYPE	TEMP RANGE	ADJUSTABLE SWITCHING DIFFERENTIAL	PROGRAMMING MODE
NTC10K	5-35°C	0.2-1.0°C	5/1/1 Day

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.

PRE-PAIRED Components

EMBER TS SMART HEATING CONTROL - PACK GUIDE

BOILER PLUS

Open Therm®

	CP4-OT	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

EASY INSTALLATION
Thermostat, receivier and gateway have pre-paired RF connections making installation quick and easy.

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

ALEXA VOICE CONTROL
With Alexa, you can control your heating system, check temperatures, boost zones and much more.

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

MULTI ZONE
Control up to 6 zones in a home by adding more thermostats. Hot water control is also available with CP4-HW-OT thermostat.

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

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

PROGRAMMABLE
Allows flexible control by the users via the hardware or the EMBER App. Time & temperature can be programmed for 6 periods per day.

ErP Class V | +3%   Download on the App Store   GET IT ON Google play   WORKS WITH alexa   EPH EMBER   EPH Controls   EMBER
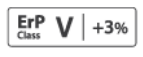
COMBIPACK 4

PRE-PAIRED Components

ErP Class **V** +3%

Boost Function
Holiday Mode
Battery Operated
Keypad Lock
Portable or Wall Mounted

Programmable RF Thermostat & Receiver

Open Therm®

BOILER PLUS

WARRANTY 5 Years STANDARD

USER FRIENDLY
User centered design is the key of COMBIPACK 4'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.

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.

Smart Thermostat, Receiver & Gateway [TS]

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

BOILER PLUS

PRODUCT CODE	COMPONENTS	TEMP RANGE	SWITCH OUTPUT
CP4i	RFRP-OT, RF1A-OT & GW03	5 ... 35°C	SPDT Volt Free

SENSOR TYPE	SWITCH RATING	FEATURE	PROGRAMMING MODE
NTC10K	10A 230Vac	Optimum Start & TPI	5/2 Day, 7 Day, 24Hr

Programmable RF Thermostat & Receiver [TS]

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

BOILER PLUS

PRODUCT CODE	COMPONENTS	TEMP RANGE	SWITCH OUTPUT
CombiPack4-OT	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
NTC10K	10A 230Vac	Optimum Start & TPi	5/2 Day, 7 Day, 24Hr

PRODUCT CODE	COMPONENTS	SWITCH RATING	SWITCH OUTPUT
CombiPack2	TRFPi2 & RF1A	10A 230Vac	SPDT Volt Free

ErP Class I = 1%

SENSOR TYPE	TEMP RANGE	ADJUSTABLE SWITCHING DIFFERENTIAL	PROGRAMMING MODE
NTC10K	5 ... 35°C	0.2 ... 1.0°C	5/2 Day, 7 Day, 24Hr

RF Thermostat & Receiver

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

ErP Class I = 1%

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

Smart Programmer System

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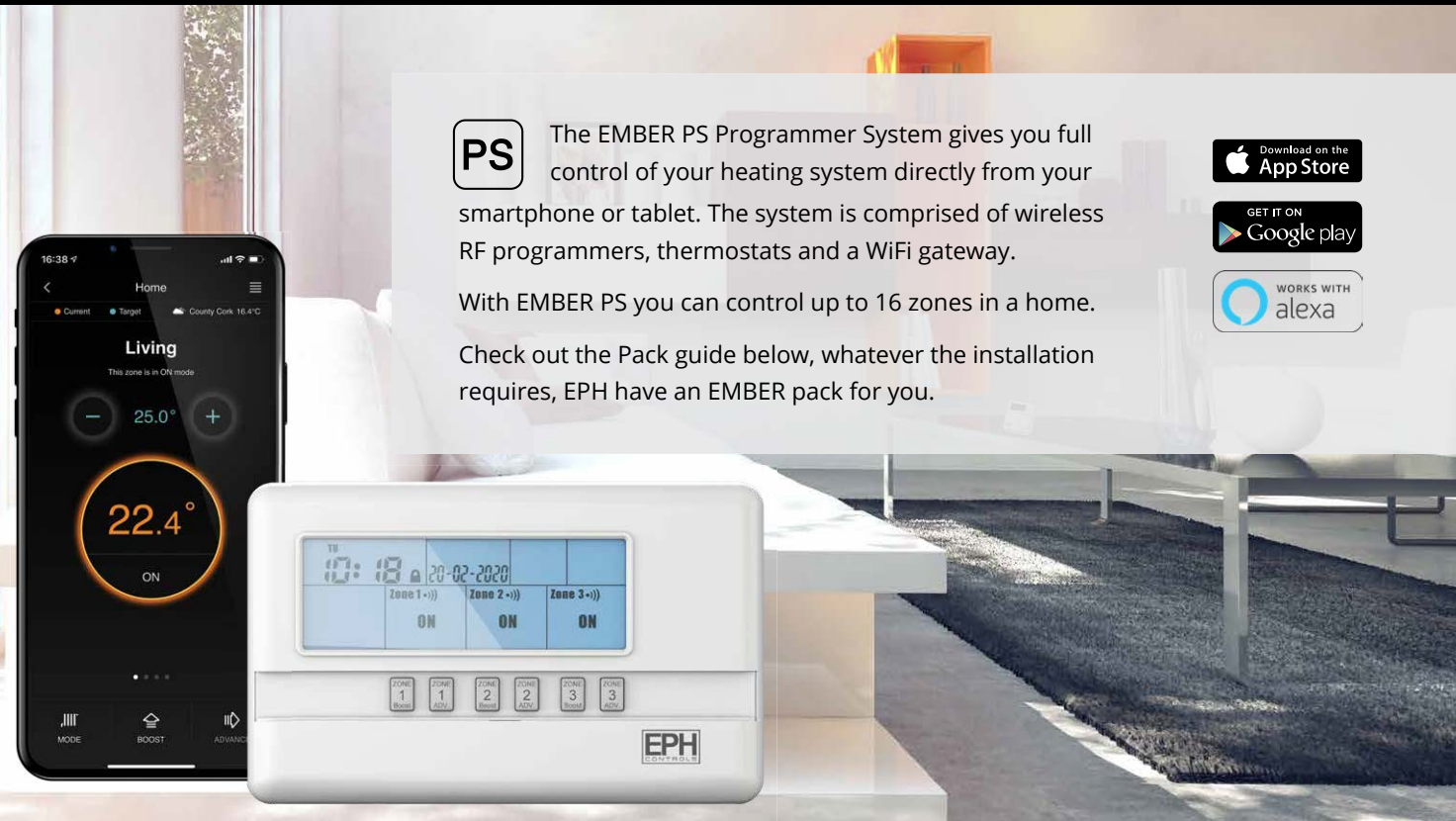
PS The EMBER PS Programmer System gives you full control of your heating system directly from your smartphone or tablet. The system is comprised of wireless RF programmers, thermostats and a WiFi gateway.

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
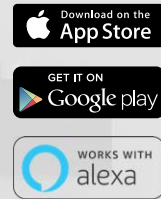
EMBER PS SMART HEATING CONTROL - PACK GUIDE

	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 PS14 a				1			1
EMBER PS15				1	2	1	1
EMBER PS16				1	1	1	1

1 Zone Timeswitch PS

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

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

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

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

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

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

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

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

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

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

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

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

RF Room Thermostat 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
RFRA	Room thermostat with on/off button	5 ... 35°C	RF1
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 Thermostat PS

PRODUCT CODE	TYPE	TEMP RANGE	FOR USE WITH
RFC	Cylinder thermostat with boost button	10 ... 90°C	R_7-RF & EMBER
RFCA	Cylinder thermostat with on/off button	10 ... 90°C	RF1
RFCDBS	Cylinder thermostat with Hardwired Hi Limit Thermostat Specifically for unvented cylinders to comply with Part G regulations.	10 ... 90°C	R_7-RF & EMBER

NEW

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

RF Receiver

PRODUCT CODE	TYPE		CONTACT RATING	MOUNTING TYPE	FOR USE WITH
RF1	1 Zone RF Receiver		10A	Wall	RFRA / RFCA
RF1A	1 Zone RF Receiver		10A	Wall	TRFPi2 / RFRP-OT RFRP-HW-OT

RF RANGE	AMBIENT TEMP RANGE	DIMENSIONS	POWER SUPPLY
Max 30m	0 ... 50°C	84 x 84 x 30mm	230Vac ±10%

WiFi Gateway

GW01   GW03

PS   TS

For use with: R_7-RF | EMBER | RFR | RFC

PRODUCT CODE	TYPE	FOR USE WITH
GW01	RF/WiFi Interface	EMBER PS
GW03	RF/WiFi Interface	EMBER TS

RF RANGE	AMBIENT TEMP RANGE	POWER SUPPLY
Max 30m	0 ... 50°C	230Vac ±10%

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 Pack PS

PRODUCT CODE	PROGRAMMER	THERMOSTAT	
CWP1E	R17-RF x 1	RFR x 1	(with Boost button)
CWP1EB	R17-RF x 1	RFRB x 1	(with On/Off button)
CWP1EC	R17-RF x 1	RFC x 1	(with Boost button)

2 Zone RF Programmer Pack PS

PRODUCT CODE	PROGRAMMER	THERMOSTAT	
CWP2E	R27-RF x 1	RFR x 1	RFC x 1
CWP2CE	R27-RF x 1	RFR x 1	-
CWP2RE	R27-RF x 1	RFR x 2	-

3 Zone RF Programmer Pack PS

PRODUCT CODE	PROGRAMMER	THERMOSTAT	
CWP3E	R37-RF x 1	RFR x 2	RFC x 1
CWP3CE	R37-RF x 1	RFR x 2	-
CWP3RE	R37-RF x 1	RFR x 3	-

4 Zone RF Programmer Pack PS

PRODUCT CODE	PROGRAMMER	THERMOSTAT	
CWP4E	R47-RF x 1	RFR x 3	RFC x 1
CWP4CE	R47-RF x 1	RFR x 3	-
CWP4RE	R47-RF x 1	RFR x 4	-

Y Plan RF Heating Control Pack [PS]

PRODUCT CODE	COMPRESSION MOTORISED VALVE	PROGRAMMER	THERMOSTAT		WIRING CENTRE
CR22PRF	B322PF x 1	R27-RF x 1	RFR x 1	RFC x 1	WC2 x1
CR28PRF	B328PF x 1	R27-RF x 1	RFR x 1	RFC x 1	WC2 x1

5 YEAR | 30 | EMBER APP | BOX QTY 6 | CE

S Plan RF Heating Control Pack [PS]

PRODUCT CODE	COMPRESSION MOTORISED VALVE	PROGRAMMER	THERMOSTAT		WIRING CENTRE
CR222PRF	V222P x 2	R27-RF x 1	RFR x 1	RFC x 1	WC2 x1
CR228PRF	V228P x 2	R27-RF x 1	RFR x 1	RFC x 1	WC2 x1

5 YEAR | 30 | EMBER APP | BOX QTY 6 | CE

S Plan RF Unvented Heating Control Pack [PS]

PRODUCT CODE	COMPRESSION MOTORISED VALVE	PROGRAMMER	THERMOSTAT	WIRING CENTRE
CR222PURF	V222P x 1	R27-RF x 1	RFR x 1	-	WC2 x1
CR228PURF	V228P x 1	R27-RF x 1	RFR x 1	-	WC2 x1

5 YEAR | 30 | EMBER APP | BOX QTY 6 | CE

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

PRODUCT CODE	COMPRESSION MOTORISED VALVE	PROGRAMMER	THERMOSTAT	WIRING CENTRE
CRF2P-221221	V222P x 2	R27-RF x 1	RFR x 1	WRP x 1	WC2 x1

5 YEAR | 30 | EMBER APP | BOX QTY 6 | CE

2 Zone Combi Zoning RF Control Pack [PS]

PRODUCT CODE	COMPRESSION MOTORISED VALVE	PROGRAMMER	THERMOSTAT	WIRING CENTRE
CRF2P-222201	V222P x 2	R27-RF x 1	RFR x 2	-	WC2 x1

5 YEAR | 30 | EMBER APP | BOX QTY 6 | CE

3 Zone RF Heating Control Pack [PS]

PRODUCT CODE	COMPRESSION MOTORISED VALVE	PROGRAMMER	THERMOSTAT		WIRING CENTRE
CR322PRF	V222P x 3	R37-RF x 1	RFR x 2	RFC x 1	WC2 x1
CR328PRF	V228P x 3	R37-RF x 1	RFR x 2	RFC x 1	WC2 x1

5 YEAR | 30 | EMBER APP | BOX QTY 6 | CE

3 Zone RF Unvented Heating Control Pack [PS]

PRODUCT CODE	COMPRESSION MOTORISED VALVE	PROGRAMMER	THERMOSTAT	WIRING CENTRE
CR322PURF	V222P x 2	R37-RF x 1	RFR x 2	-	WC2 x1
CR328PURF	V228P x 2	R37-RF x 1	RFR x 2	-	WC2 x1

5 YEAR | 30 | EMBER APP | BOX QTY 6 | CE

3 Zone RF Heating Control Pack with Hardwired Cylinder Thermostat [PS]

PRODUCT CODE	COMPRESSION MOTORISED VALVE	PROGRAMMER	THERMOSTAT	WIRING CENTRE
CRF3P-322221	V222P x 3	R37-RF x 1	RFR x 2	WRP x 1	WC2 x1

5 YEAR | 30 | EMBER APP | BOX QTY 6 | CE

3 Zone Combi Zoning RF Control Pack [PS]

PRODUCT CODE	COMPRESSION MOTORISED VALVE	PROGRAMMER	THERMOSTAT	WIRING CENTRE
CRF3P-323201	V222P x 3	R37-RF x 1	RFR x 3	-	WC2 x1

5 YEAR | 30 | EMBER APP | BOX QTY 6 | CE

4 Zone RF Heating Control Pack [PS]

PRODUCT CODE	COMPRESSION MOTORISED VALVE	PROGRAMMER	THERMOSTAT		WIRING CENTRE
CR422PRF	V222P x 4	R47-RF x 1	RFR x 3	RFC x 1	WC2 x1
CR428PRF	V228P x 4	R47-RF x 1	RFR x 3	RFC x 1	WC2 x1

5 YEAR | 30 | EMBER APP | BOX QTY 6 | CE

4 Zone RF Heating Control Pack [PS]

PRODUCT CODE	COMPRESSION MOTORISED VALVE	PROGRAMMER	THERMOSTAT	WIRING CENTRE
CR422PURF	V222P x 3	R47-RF x 1	RFR x 3	-	WC2 x1
CR428PURF	V228P x 3	R47-RF x 1	RFR x 3	-	WC2 x1

5 YEAR | 30 | EMBER APP | BOX QTY 1 | CE

TR1 TR2

PRE-PAIRED
Components

2 Way RF Transceiver Pack

Wireless Boiler Interlock

WARRANTY
5 Years
STANDARD

2 Way RF Communication

Meets Building Regulations

Saves Time and Materials

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.

RF Transceiver

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

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

Wiring examples

TR1   TR2

EXAMPLE 1   Wirelessly completing a 230V connection

a.) On TR1   When L_{in} receives 230V, TR1 sends a wireless signal to TR2.
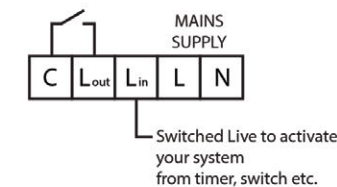
b.) On TR2   N/O contact will close and can switch any device with a 230V switched live.

MAINS SUPPLY
C L_{out} L_{in} L N
Switched Live to activate your system from timer, switch etc.

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 Device
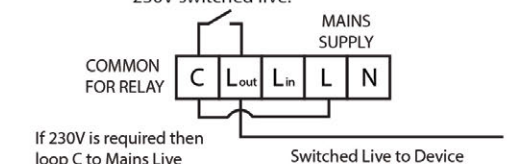
EXAMPLE 2   Single Wireless Switch - TR1 to TR2 only - Volt Free Switch to Boiler

a.) On TR1   When L_{in} receives 230V, TR1 sends a wireless signal to TR2.
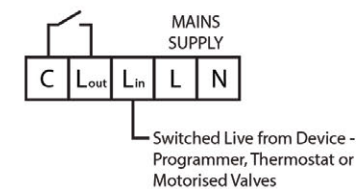
b.) On TR2   N/O contact will close and switches on the boiler with a volt free switch.

MAINS SUPPLY
C L_{out} L_{in} L N
Switched Live from Device - Programmer, Thermostat or Motorised Valves

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 L_{out}.   Volt Free Switch Wire
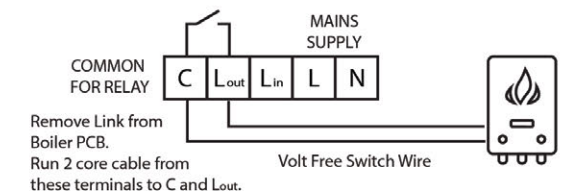
EXAMPLE 3   Double Wireless Switch - TR1 to TR2 and TR2 back to TR1 - 230V

a.) On TR1   When L_{in} receives 230V, TR1 sends a wireless signal to TR2.
c.) On TR1   N/O contact on TR1 will close and switches the boiler with a 230V switched live.
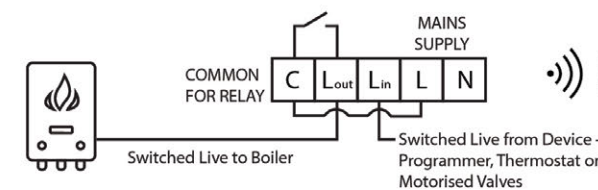
b.) On TR2   N/O contact will close. Motorised valve will open. Auxiliary switch on motorised valve will close and send 230V to L_{in} on TR2. TR2 will send a wireless signal back to TR1.

COMMON FOR RELAY
MAINS SUPPLY
C L_{out} L_{in} L N
Switched Live to Boiler   Switched Live from Device - Programmer, Thermostat or Motorised Valves

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 Motorised Valve
For Actuator Aux
L
N
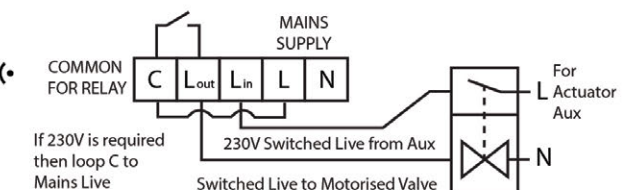
EXAMPLE 4   Double Wireless Switch - TR1 to TR2 and TR2 back to TR1 - Volt Free

a.) On TR1   When L_{in} receives 230V, TR1 sends a wireless signal to TR2.
c.) On TR1   N/O contact on TR1 will close and switches the boiler with a Volt free switch.
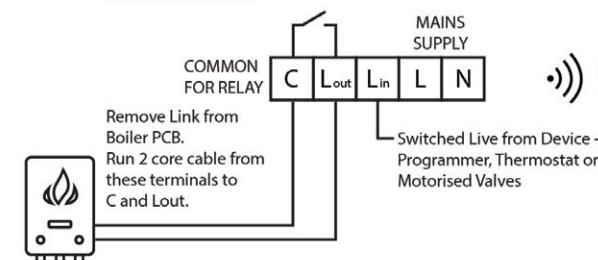
b.) On TR2   N/O contact will close. Motorised valve will open. Auxiliary switch on motorised valve will close and send 230V to L_{in} on TR2. TR2 will send a wireless signal back to TR1.

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.   Switched Live from Device - Programmer, Thermostat or Motorised Valves

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 Motorised Valve
For Actuator Aux
L
N
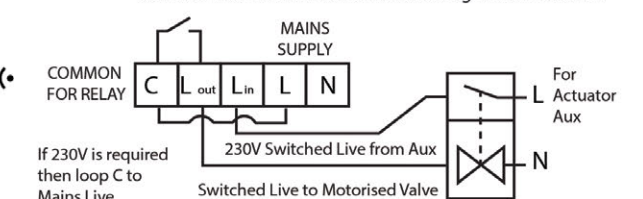
TRV Single Pack – Chrome Angled

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
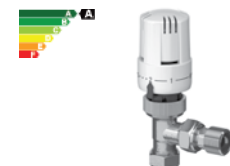
PRODUCT CODE	CONNECTION TYPE	BI DIRECTIONAL	ACCESSORIES
CTRV10	10mm compression	Yes	–
CTRV15	15mm compression	Yes	1 x 1/2˝ olive

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

TRV Twin Pack – Angled for 16mm Multi Layer Pipe

PRODUCT CODE	CONNECTION TYPE	BI DRECTIONAL	ACCESSORIES
NEW 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

TRV Twin Pack – Angled Components

PRODUCT CODE	CONNECTION TYPE	BI DRECTIONAL	DESCRIPTION
LSV10	10mm compression	Yes	Lockshield valve
LSV15	15mm compression	Yes	Lockshield valve
LSVMLP	16mm multilayer pipe	Yes	Lockshield valve
TRV	–	–	Thermostatic head
TRVB15	15mm compression	Yes	TRV valve

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

TRV Single Pack Female BSP

PRODUCT CODE	CONNECTION TYPE	BI DRECTIONAL
CTRVBF15	1/2" Female BSP	No

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

BOX QTY 25

TRV Twin Pack – Female BSP

PRODUCT CODE	CONNECTION TYPE	BI DRECTIONAL
EMTRVBF15	1/2" Female BSP	No
EMTRVBF20	3/4" Female BSP	No

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

BOX QTY 25

TRV Body – Female BSP

PRODUCT CODE	CONNECTION TYPE	BI DRECTIONAL
TRVBF15	1/2" Female BSP	No
TRVBF20	3/4" Female BSP	No

MAX. DIFFERENTIAL PRESSURE

0.6 bar

BOX QTY 50

Lockshield Valve – Female BSP

PRODUCT CODE	CONNECTION TYPE	BI DRECTIONAL
LSVF15	1/2" Female BSP	No
LSVF20	3/4" Female BSP	No

MAX. DIFFERENTIAL PRESSURE

0.6 bar

BOX QTY 50

Drain Off Valve

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

BOX QTY 200

Lockshield Drain Off Valve

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

BOX QTY 50

Push Fit Elbow

PRODUCT CODE	DESCRIPTION	PACK QUANTITY
PFE10	15mm x10mm Push fit elbow	2 pieces

BOX QTY 75

10mm Reducer

PRODUCT CODE	DESCRIPTION	PACK QUANTITY
RED10	10mm Reducer	20 pieces

BOX QTY 1000

TRV Body

PRODUCT CODE	CONNECTION TYPE	BI DIRECTIONAL
TRVB15	15mm Compression	yes
TRVBF15	1/2" Female BSP	no
TRVBF20	3/4" Female BSP	no

Max. Differential Pressure: 0.6 bar

BOX QTY 50

2 Port Unit Valves, FxF & Thermal Actuator

PRODUCT CODE	VALVE SIZE	FLOW RATE
VUA015F200	DN15	1.7Kvs
VUA020F200	DN20	2.6Kvs
VUA025F200	DN25	4.9Kvs

TEMPERATURE RANGE	ACTUATOR CONNECTION	PN RATING	CONNECTION TYPE
2…110°C	M30x1.5	PN16	Female BSP

PRODUCT CODE	POWER SUPPLY	NORMALLY	RUNNING TIME
TA24	24Vac	Closed (open)	4.5 min
TA230	230Vac	Closed (open)	3.5 min

MAX. STROKE	AMBIENT TEMP RANGE	SPRING PRESSURE
4.5mm	0-50˚C	125N

For use with: TRVB15, TRVBF15, TRVBF20, VUA

BOX QTY 100

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
CO	OP = None	-	0 = 0	0 = None	0 = 0	0 = None	0 = None	0 = None
C	A1P = A17	-	1 = 1	1 = 3/4" Compression 2 port	1 = 1	1 = RS1	1 = WRP	1 = WC2
C	A2P = A27-HW	-	2 = 2	2 = 22mm Compression 2 port	2 = 2	2 = CM2	2 = CDC	2 = WC3
CR	1P = R17, 1 Channel	-	3 = 3	3 = 28mm Compression 2 port	3 = 3	3 = CM3	3 = WRP-IM	
CR	2P = R27-HW, 2 Channel,HW/CH	-	4 = 4	4 = 3/4" Female BSP 2 port	4 = 4	4 = CDT2	4 = WRP-IM-TP	
CR	3P = R37-HW, 3 Channel,HW/CH1/CH2	-		5 = 1" Female BSP 2 port		5 = CMT	5 = WRP-TP	
CR	4P = R47, 4 Channel, Zone 1/2/3/4	-		6 = 22mm Compression 3 port		6 = CRT2	6 = DBS	
CR	5P = R27, 2 Channel, Zone 1/2	-		7 = 28mm Compression 3 port		7 = CDTP2		
CR	6P = R37, 3 Channel, Zone 1/2/3	-		8 = 22mm Compression 2 port DS222P		8 = CRTP2		
						9 = CP4-OT		
						A = CP4M		

RF Control Pack Coding System

CONTROL PACK	PROGRAMMER		MOTORISED VALVES		ROOM STATS		CYLINDER STATS	WIRING CENTRE
CODE	TYPE	-	QTY	MODEL	QTY	MODEL	MODEL	MODEL
CO	0P = None	-	0 = 0	0 = None	0 = 0	0 = None	0 = None	0 = None
CRF	1P = R17-RF, 1 Channel	-	1 = 1	1 = 3/4" Compression 2 port	1 = 1	2 = RFR	1 = RFC	1 = WC2
CRF	2P = R27-RF, 2 Channel	-	2 = 2	2 = 22mm Compression 2 port	2 = 2	3 = CM2	2 = WRP	2 = WC3
CRF	3P = R37-RF, 3 Channel	-	3 = 3	3 = 28mm Compression 2 port	3 = 3	4 = CM3	3 = WRP-IM	
CRF	4P = R47-RF, 4 Channel	-	4 = 4	4 = 3/4" Female BSP 2 port	4 = 4	5 = RFRB	4 = WRP-IM-TP	
				5 = 1" Female BSP 2 port			5 = WRP-TP	
				6 = 22mm Compression 3 port			6 = DBS	
				7 = 28mm Compression 3 port			7 = RFCDBS	
				8 = 22mm Compression 2 port DS222P				

Iconography

🕐	3 On/Off periods	EMBER APP	EMBER App	🔆	Mains operated
5 YEAR	5 year warranty	❄	Frost protection	30	Max 30M distance
🔋	Battery operated		Indicator light	MOTOR USA	Motor made in USA
∿	Cable sensor	🔒	Keypad lock		Open Therm
	Detachable actuator	🌡	Limitable temperature range	✛	Legionnaires function

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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 / R17
DANFOSS	GP103E5	•	5/2		•		A17 / R17
DANFOSS	GP103E7	•	7		•		A17 / R17
DANFOSS	TS715	•	7		•		A17 / R17
DANFOSS	TS715Si	•	7		•	•	A17 / R17
DANFOSS	TS975	•	7		•		A17 / R17
DANFOSS	SET 1E	•	1		•		A17 / R17
EPH	**A17**	•	**1-5/2-7**	•	•		
EPH	**R17**	•	**1-5/2-7**	•	•		
HONEYWELL	ST6100A1001	•	1		•		A17 / R17
HONEYWELL	ST6100C1009	•	7		•		A17 / R17
HONEYWELL	ST6100S1000	•	1		•	•	A17 / R17
HONEYWELL	ST9100A1008	•	1		•		A17 / R17
HONEYWELL	ST9100C1006	•	7		•		A17 / R17
HONEYWELL	ST9100S1007	•	1		•	•	A17 / R17
HORSTMANN	425 CORONET	•	1	•			A17 / R17
HORSTMANN	H11	•	1		•		A17 / R17
HORSTMANN	H17	•	7		•		A17 / R17
HORSTMANN	H11XL	•	1		•		A17 / R17
HORSTMANN	H17XL	•	7		•		A17 / R17
HORSTMANN	C11	•	1		•	•	A17 / R17
HORSTMANN	C17	•	7		•	•	A17 / R17
INVENSYS	TEMPUS 1	•	5/2		•		A17 / R17
INVENSYS	TEMPUS 2	•	7		•		A17 / R17
INVENSYS	LP111	•	1		•		A17 / R17
INVENSYS	LP711	•	7		•		A17 / R17
INVENSYS	LP111 Si	•	1		•	•	A17 / R17
INVENSYS	LP711 Si	•	7		•	•	A17 / R17
INVENSYS	SW.MASTER 3000	•	1	•			A17 / R17
INVENSYS	SM1	•	1	•			A17 / R17
POTTERTON	EP4000	•	1		•		A17 / R17
POTTERTON	EP4002	•	5/2		•		A17 / R17
POTTERTON	EP5002	•	7		•		A17 / R17
POTTERTON	MYSON MEP1C	•			•		A17 / R17
SIEMENS	RWB30E	•	1	•			A17 / R17
SIEMENS	RWB27	•	7		•		A17 / R17
SIEMENS	RWB7	•	7		•		A17 / R17
SUNVIC	SELECT 107	•	7		•		A17 / R17
SUNVIC	SIMPLEX 100	•	1		•	•	A17 / R17

A17　　**A27-HW**

R17　　**R27-HW**

PROGRAMMERS

SUPPLIER	PRODUCT	MINI PROG	FULL PROG	DAYS	MECH	ELEC	SERVICE TIMER	EPH REPLACEMENT
DANFOSS	GP102	•	1	•				A27-HW / R27-HW
DANFOSS	GP102E5	•	5/2		•			A27-HW / R27-HW
DANFOSS	GP102E7	•	7		•			A27-HW / R27-HW
DANFOSS	CP715	•	7		•			A27-HW / R27-HW
DANFOSS	FP715	•	7		•			A27-HW / R27-HW
DANFOSS	CP715 Si	•	7		•	•		A27-HW / R27-HW
DANFOSS	FP715 Si	•	7		•	•		A27-HW / R27-HW
DANFOSS	MK3 3060	•	1	•				A27-HW / R27-HW
DANFOSS	MK3 4033	•	1	•				A27-HW / R27-HW
DANFOSS	FP975	•	7		•			A27-HW / R27-HW
DANFOSS	SET 2E	•	1		•			A27-HW / R27-HW
DANFOSS	SET 3E	•	1		•			A27-HW / R27-HW
DANFOSS	SET 3M	•	1		•			A27-HW / R27-HW
EPH	**A27-HW**	•	**1-5/2-7**		•	•		
EPH	**R27-HW**	•	**1-5/2-7**		•	•		
HONEYWELL	ST6200A1009	•	1		•			A27-HW / R27-HW
HONEYWELL	ST6300A1007	•			•			A27-HW / R27-HW
HONEYWELL	ST6300A1015	•	1		•			A27-HW / R27-HW
HONEYWELL	ST6400A1005	•	1		•			A27-HW / R27-HW
HONEYWELL	ST6400C1003	•	7		•			A27-HW / R27-HW
HONEYWELL	ST6400C1052	•	7		•			A27-HW / R27-HW
HONEYWELL	ST6400S1004	•	1		•	•		A27-HW / R27-HW
HONEYWELL	ST699B1002	•	1		•			A27-HW / R27-HW
HONEYWELL	ST799A1003	•	7		•			A27-HW / R27-HW
HONEYWELL	ST9400A1002	•	1		•			A27-HW / R27-HW
HONEYWELL	ST9400C1000	•	7		•			A27-HW / R27-HW
HONEYWELL	ST9400S1001	•	1		•	•		A27-HW / R27-HW
HONEYWELL	ST9500C1015	•	7		•			A27-HW / R27-HW
HORSTMANN	425 DIADEM	•	1	•				A27-HW / R27-HW
HORSTMANN	425 TIARA	•	1	•				A27-HW / R27-HW
HORSTMANN	H27Z	2	7		•			A27-HW / R27-HW
HORSTMANN	H21	•	1		•			A27-HW / R27-HW
HORSTMANN	H27	•	7		•			A27-HW / R27-HW
HORSTMANN	H21XL	•	1		•			A27-HW / R27-HW
HORSTMANN	H27XL	•	7		•			A27-HW / R27-HW
HORSTMANN	C21	•	1		•	•		A27-HW / R27-HW
HORSTMANN	C27	•	7		•	•		A27-HW / R27-HW
INVENSYS	TEMPUS 6	•	5/2		•			A27-HW / R27-HW
INVENSYS	TEMPUS 7	•	7		•			A27-HW / R27-HW
INVENSYS	LP112	•	1		•			A27-HW / R27-HW
INVENSYS	LP241	•	1		•			A27-HW / R27-HW
INVENSYS	LP522	•	5/2		•			A27-HW / R27-HW
INVENSYS	LP722	•	7		•			A27-HW / R27-HW
INVENSYS	LP112 Si	•	1		•	•		A27-HW / R27-HW
INVENSYS	LP241 Si	•	1		•	•		A27-HW / R27-HW
INVENSYS	LP522 Si	•	5/2		•	•		A27-HW / R27-HW
INVENSYS	LP722 Si	•	7		•	•		A27-HW / R27-HW
INVENSYS	SW.MASTER 400	•	1	•				A27-HW / R27-HW
INVENSYS	SW.MASTER 600	•	1	•				A27-HW / R27-HW
INVENSYS	SW.MASTER 805	•		•				A27-HW / R27-HW
INVENSYS	SM2	•	1	•				A27-HW / R27-HW
POTTERTON	EP6002	•	1		•			A27-HW / R27-HW
POTTERTON	EP2000	•	7		•			A27-HW / R27-HW
POTTERTON	EP2002	•	1		•			A27-HW / R27-HW
POTTERTON	EP3002	•	5/2		•			A27-HW / R27-HW
POTTERTON	MYSON MEP2C	•	7		•			A27-HW / R27-HW
SIEMENS	RWB2E	•		•				A27-HW / R27-HW
SIEMENS	RWB29	•	1		•			A27-HW / R27-HW
SIEMENS	RWB9	•	7		•			A27-HW / R27-HW
SUNVIC	SELECT 207	•	7		•			A27-HW / R27-HW
SUNVIC	SIMPLEX 200	•	1		•	•		A27-HW / R27-HW

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