

HEATING CONTROLS

2026 IE / NI Catalogue



Welcome

Explore our 2026 product range

& 29 years of excellence



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We reward

Loyalty & Dedication

We'd like to say: Thank you.

Rewards
EPH CONTROLS

How EPH Rewards programme works

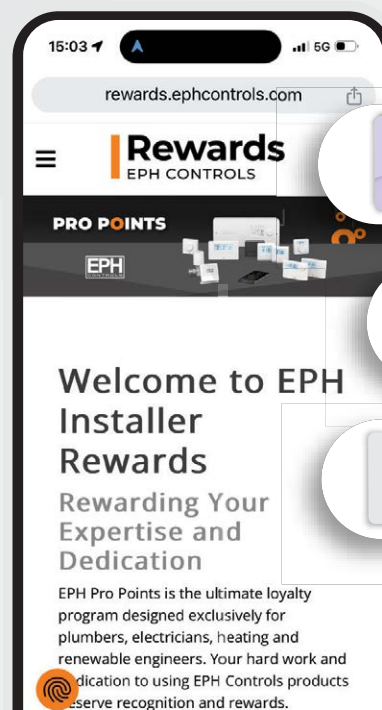
- Earn Pro Points for installing EPH products.
- Exchange Pro Points for gift cards & gadgets from top retailers.
- Be the first to hear about the latest product launches.
- Simple registration process.
- Enjoy boosted points on promotional items.
- Gain access to exclusive EPH Controls merchandise.

Attention all Installers

Welcome Bonus when you join!

Enjoy your

**WELCOME
BONUS**



Gift Card

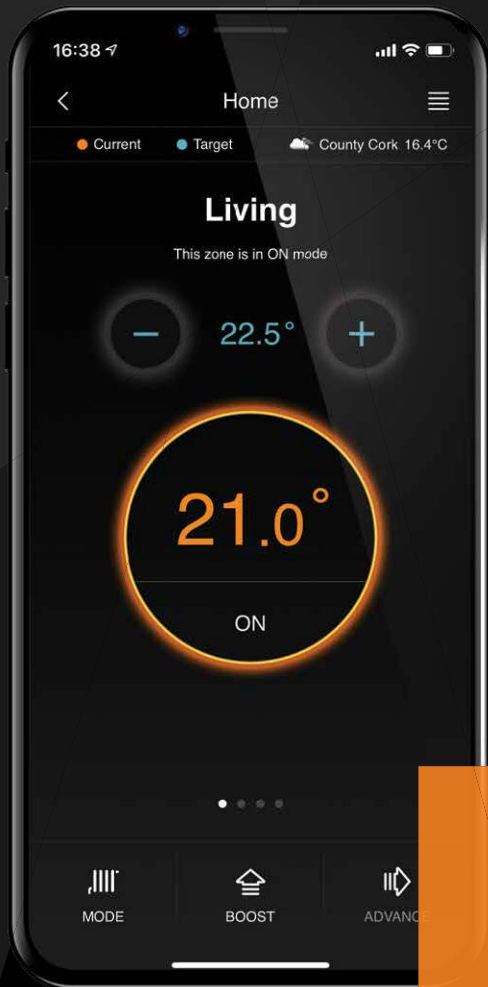


Shopping



and more

Smart Heating Control



1 APP
4
SYSTEMS



Underfloor System

Designed to simplify installing and controlling an underfloor system, saving time and money. Pairing with our new RF thermostats reduces installation time by eliminating the need to wire each thermostat individually.



Thermostat System

Upgraded thermostat and receiver design which retains all of the functionality our customers have grown to love. OpenTherm is integrated for efficiency and can be used for systems with 1 – 6 zones including hot water cylinders.



Radiator System

Ideal for zoning a home with 1 to 16 radiators - allowing for individual room temperature control. The base unit is designed for use with an industry standard 6 pin backplate. Only heat the area you want, when you want.



Programmer System

Comprising of a 1, 2, 3 or 4 channel programmer and our latest range of RF thermostats, the PS System is ideal for new and retrofit installations. Particularly convenient for systems including motorised valves.





Underfloor

Heating Control System

The US Underfloor System controls up to 10 zones and delivers the ultimate level of comfort for the homeowner through the EMBER App. Our innovative technology makes underfloor installations simple for the installer.

The UFH10-RF saves installers time and money by connecting to our wireless thermostats, eliminating costly cable runs.



Coming in 2026: Zone 10 can pair with up to 10 eTRVs for combined underfloor and radiator control - ideal for mixed systems - while optional RF boiler communication removes the need for wiring from the manifold.





EMBER Underfloor System

RF Wiring Centre 10 Zone



Add a GW04 Gateway to upgrade to EMBER App Control



PRODUCT CODE	CONTACT RATING	NO. OF ZONES	PROGRAMMER
UFH10-RF	3(1)A	10	10 Zone Integrated
POWER SUPPLY	HEAT ENABLE OUTPUT	UFH PUMP OUTPUT	FEATURES
230Vac ±10%	Volt Free	230V~	Pump Delay 0...5 mins Anti-Seize Function

GW04 WiFi Gateway



Used to upgrade your UFH10-RF to EMBER App Control



PRODUCT CODE	CONNECTIVITY OPTIONS	FREQUENCY BANDS	
GW04	RF & WiFi Interface	2.4 or 5GHz	
POWER SUPPLY	PORT TYPE	RF RANGE	ACCESSORIES INCLUDED
230Vac ±10%	Micro USB	10m	USB Plug & Cable

RF Recessed Thermostat with Setback Function - Mains powered

TOUCH



RDT-RF-TW



RDT-RF-TB

NEW

ErP Class IV = 2%
Compatible with up to 2 External Temp Sensors
Accessories: NTC10K-Ferrule & NTC Housing



PRODUCT CODE	MOUNTING TYPE	TEMP RANGE	FEATURES
RDT-RF-TW	Recessed	5 ... 35°C	On/Off Button Delay Start / TPI
RDT-RF-TB	Recessed	5 ... 35°C	On/Off Button Delay Start / TPI
POWER SUPPLY	SWITCHING DIFFERENTIAL	RF RANGE	FOR USE WITH
230Vac ±10%	0 ... 1.0°C	30m	UFH10-RF or R_7-RF ^{V2}

RF Thermostat with Setback Function - Battery powered

TOUCH



RFRB-TW



RFRB-TB

NEW

ErP Class IV = 2%
Compatible with 1 External Temp Sensor
Accessories: NTC10K-Plug & NTC Housing



PRODUCT CODE	MOUNTING TYPE	TEMP RANGE	FEATURES
RFRB-TW	Surface or Stand	5 ... 35°C	On/Off Button Delay Start / TPI
RFRB-TB	Surface or Stand	5 ... 35°C	On/Off Button Delay Start / TPI
POWER SUPPLY	SWITCHING DIFFERENTIAL	RF RANGE	FOR USE WITH
4 x AAA (incl.)	0 ... 1.0°C	30m	UFH10-RF or R_7-RF ^{V2}

RF Thermostat with Setback Function - Battery powered



ErP Class IV = 2%
Compatible with 1 External Temp Sensor
Accessories: NTC10K-Plug & NTC Housing



PRODUCT CODE	MOUNTING TYPE	TEMP RANGE	FEATURES
RFRB ^{V2}	Surface or Stand	5 ... 35°C	On/Off Button Delay Start / TPI
RFR ^{V2}	Surface or Stand	5 ... 35°C	Boost Button Delay Start / TPI
POWER SUPPLY	SWITCHING DIFFERENTIAL	RF RANGE	FOR USE WITH
2 x AAA (incl.)	0 ... 1.0°C	30m	UFH10-RF or R_7-RF ^{V2}

RF Dial Thermostat with Setback Function – Mains powered

EMBER APP US PS



ErP Class IV = 2%

Not compatible with External Temp Sensors



PRODUCT CODE	MOUNTING TYPE	TEMP RANGE	FEATURES
HDT-RF	Surface	5 ... 35°C	Delay Start / TPI / Setback Function
POWER SUPPLY	SWITCHING DIFFERENTIAL	RF RANGE	FOR USE WITH
230Vac ± 10%	0 ... 1.0°C	30m	UFH10-RF or R_7-RF ^{V2}

RF Recessed Thermostat with Setback Function – Mains powered

EMBER APP US PS



ErP Class IV = 2%

Compatible with 1 External Temp Sensor

Accessories: NTC10K-Ferrule & NTC Housing



PRODUCT CODE	MOUNTING TYPE	TEMP RANGE	FEATURES
RDT-RF	Recessed	5 ... 35°C	Delay Start / TPI / Setback Function
POWER SUPPLY	SWITCHING DIFFERENTIAL	RF RANGE	FOR USE WITH
230Vac ± 10%	0 ... 1.0°C	30m	UFH10-RF or R_7-RF ^{V2}

RF Surface Mounted Thermostat with Setback Function – Mains powered

EMBER APP US PS



ErP Class IV = 2%

Compatible with 1 External Temp Sensor

Accessories: NTC10K-Ferrule & NTC Housing



PRODUCT CODE	MOUNTING TYPE	TEMP RANGE	FEATURES
CDT2-RF	Surface	5 ... 35°C	Delay Start / TPI / Setback Function
POWER SUPPLY	SWITCHING DIFFERENTIAL	RF RANGE	FOR USE WITH
230Vac ± 10%	0 ... 1.0°C	30m	UFH10-RF or R_7-RF ^{V2}

RF Surface Mounted Thermostat with Setback Function – Battery powered

EMBER APP US PS



ErP Class IV = 2%

Compatible with 1 External Temp Sensor

Accessories: NTC10K-Ferrule & NTC Housing



PRODUCT CODE	MOUNTING TYPE	TEMP RANGE	FEATURES
CRT2-RF	Surface	5 ... 35°C	Delay Start / TPI / Setback Function
POWER SUPPLY	SWITCHING DIFFERENTIAL	RF RANGE	FOR USE WITH
2 x AA (incl.)	0 ... 1.0°C	30m	UFH10-RF or R_7-RF ^{V2}



RF Cylinder Thermostat - Battery powered



ErP Class IV = 1%



PRODUCT CODE	MOUNTING TYPE	TEMP RANGE	FEATURES
RFC ^{V2}	Surface	10 ... 90°C	Boost Button

POWER SUPPLY	SWITCHING DIFFERENTIAL	RF RANGE	FOR USE WITH
2 x AAA (incl.)	0 ... 10.0°C	30m	UFH10-RF or R_7-RF ^{V2}

RF Smart Radiator Thermostat

Up to 10 eTRVs can connect to a UFH10-RF*



Designed for use with EPH Controls TRV valves

* App Control available only with GW04^{V2}



PRODUCT CODE	TYPE	TEMP RANGE	CONNECTION
eTRV	Radiator Thermostat	5 ... 35°C	M30 x 1.5

POWER SUPPLY	DIMENSIONS	RF RANGE	FOR USE WITH
2 x AA (incl.)	86 x 86 x 25mm	Max 30m	RF16 & UFH10-RF

PRODUCT CODE	DESCRIPTION	COMPATIBLE WITH NON EPH VALVE
eTRV-ACS	TRV rings for	Danfoss RA, RAVL, RAV, Caleffi, Giacomini & M28
eTRV-EXT	Spindle extension for	Myson valves

Thermal Actuator



PRODUCT CODE	ACTUATOR TYPE	RUNNING TIME	AUXILIARY SWITCH
TA230	Normally Closed (Open)	3.5 min	-
TA230S	Normally Closed	4.5 min	Yes

POWER SUPPLY	MAX. STROKE	SPRING PRESSURE	VALVE CONNECTION
230Vac ±10%	3.5mm	125N	M30 x 1.5

Accessories



PRODUCT CODE	DESCRIPTION	FOR USE WITH
NTC10K-Ferrule	Temp Sensor, 2m	CDT2-RF, CRT2-RF, RDT-RT, RDT-RF-TW, RDT-RF-TB
NTC10K-Plug	Temp Sensor, 2m	RFR ^{V2} , RFRB ^{V2} , RFRB-TW, RFRB-TB

PRODUCT CODE	DESCRIPTION	FOR USE WITH
NTC Housing	Temp Sensor Housing	NTC10K-Ferrule, NTC10K-Plug



RECEIVER	POWER SUPPLY	BACKPLATE	CONTACT RATING	SWITCH OUTPUT
RF1B	230Vac ±10%	6 Pin	10(3)A 230Vac	SPDT Volt Free



COMING SOON

Multi Thermostat System

RDTP-TW for fully hardwired installations



Connects directly to gateway



up to 10 thermostats per gateway



Underfloor & Radiator Systems



Open Therm®



Voice Control



Quick Boost



Keypad Lock

Introducing the Thermostat System

Ideal for Retrofit and New build applications



The RDTP-TW Thermostat connects directly to the GW04^{V2} Gateway, providing a simple and flexible solution for underfloor heating control.

Designed for fully hardwired installations, the system allows up to 10 Thermostats to be paired to a single gateway, enabling independent temperature control across multiple zones via your smart devices.



CP4



The CP4 thermostat from EPH Controls has solidified its position as a market leading thermostat, thanks to its advanced functionality and universal compatibility. The thermostat and receiver come pre-paired for easy installation, making it a favourite among installers and homeowners alike.

CP4^{V2}



Meet the CP4^{V2}, the latest version of the favourite CP4. Building on its predecessor's success, CP4^{V2} seamlessly merges a sleek, contemporary design with trusted features. Introducing a redesigned receiver to fit an industry standard 6 Pin backplate and an innovative 30 minute boost feature, the CP4^{V2} adds convenience to the user while enhancing the installation experience for the installer.

Thermostat

Heating Control System





CP4D



Responding to user preferences for an intuitive handwheel control, CP4D allows quick and smooth temperature adjustment.

With a large clear display, this modern thermostat retains the trusted features of the original CP4 including OpenTherm® modulation, wireless communication and wide compatibility.

GW04



Add a Gateway for Smart Control

Make it Smart! The GW04 gateway is the perfect addition to any CP4, CP4^{v2} or CP4D installation. Adding a gateway to the system allows the user full app control of up to 6 thermostats in one home.

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

the best just got better :)



VOICE CONTROL



CONVENIENT



MULTIPLE CONTROL



COST EFFECTIVE



MULTI ZONE



EASY INSTALLATION



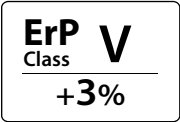
USER FRIENDLY



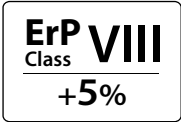
OPENTHERM®



PROGRAMMABLE



When one thermostat is fitted in conjunction with a modulating boiler



When three thermostats are fitted in conjunction with a modulating boiler





TS

Thermostat System – RF Room Thermostats

RF Programmable Thermostat

Add a GW04 Gateway to upgrade to EMBER App Control

TS



RFRPD RF1B



RFRPV2 RF1B



RFRP-OT RF1A-OT

ErP Class V = 3%,
* ErP Class VIII = 5%

* (When 3 no. thermostats are fitted in conjunction with a modulating boiler.)



PRODUCT CODE	COMPONENTS	RF RANGE	INTERNAL TEMP SENSOR
CP4D	RFRPD & RF1B	30m	NTC100K
THERMOSTAT	POWER SUPPLY	TEMP RANGE	FEATURES
RFRPD	2 x AA (incl.)	5 ... 35°C	Optimum Start & TPI

PRODUCT CODE	COMPONENTS	RF RANGE	INTERNAL TEMP SENSOR
CP4 ^{V2}	RFRPV2 & RF1B	30m	NTC100K
THERMOSTAT	POWER SUPPLY	TEMP RANGE	FEATURES
RFRPV2	2 x AA (incl.)	5 ... 35°C	Optimum Start & TPI

RECEIVER	POWER SUPPLY	BACKPLATE	CONTACT RATING	SWITCH OUTPUT
RF1B	230Vac ±10%	6 Pin	3A 230Vac	SPDT Volt Free

PRODUCT CODE	COMPONENTS	RF RANGE	INTERNAL TEMP SENSOR
CP4	RFRP-OT & RF1A-OT	30m	NTC100K
THERMOSTAT	POWER SUPPLY	TEMP RANGE	FEATURES
RFRP-OT	2 x AA (incl.)	5 ... 35°C	Optimum Start & TPI

RECEIVER	POWER SUPPLY	CONTACT RATING	SWITCH OUTPUT
RF1A-OT	230Vac ±10%	10(3)A 230Vac	SPDT Volt Free

GW04 WiFi Gateway

Used to upgrade your system to EMBER App Control

PS RS TS US



PRODUCT CODE	CONNECTIVITY OPTIONS	FREQUENCY BANDS
GW04	RF & WiFi Interface	2.4 or 5GHz

POWER SUPPLY	PORT TYPE	RF RANGE	ACCESSORIES INCLUDED
230Vac ±10%	Micro USB	10m	USB Plug & Cable

CP4i – Smart Thermostat

EMBER APP TS



RFRP-OT RF1A-OT GW04

ErP Class V = 3%,
* ErP Class VIII = 5%

* (When 3 no. thermostats are fitted in conjunction with a modulating boiler.)



PRODUCT CODE	COMPONENTS	RF RANGE	INTERNAL TEMP SENSOR
CP4i	RFRP-OT RF1A-OT GW04	30m	NTC100K
THERMOSTAT	POWER SUPPLY	TEMP RANGE	FEATURES
RFRP-OT	2 x AA (incl.)	5 ... 35°C	Optimum Start & TPI

RECEIVER	POWER SUPPLY	CONTACT RATING	SWITCH OUTPUT
RF1A-OT	230Vac ±10%	10(3)A 230Vac	SPDT Volt Free

GATEWAY	POWER SUPPLY	FREQUENCY BANDS	ACCESSORIES INCLUDED
GW04	230Vac ±10%	2.4 or 5GHz	USB Plug & Cable

COMING SOON

Smart Thermostat

CP5i



 OpenTherm® |  Voice Control |  Pre-paired |  Quick Boost |  Keypad Lock

Introducing the CP5i Smart Thermostat

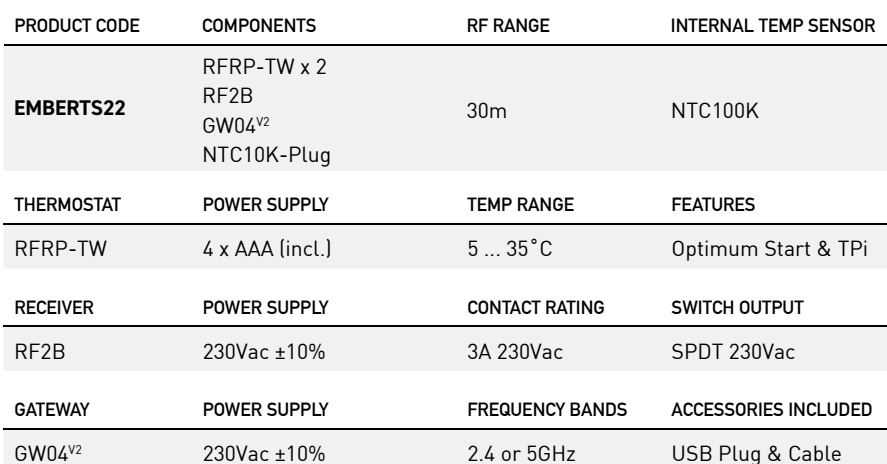
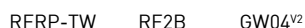
The CP5i Smart Thermostat pack includes a wireless Room Thermostat and a 1 Zone Receiver, providing a simple solution for controlling a combi boiler or a single zone in a heating system.



It comes with the new GW04^{V2} Gateway which offers both WiFi and LAN connectivity options. The EMBER TS system is compatible with up to 6 thermostats per gateway giving ultimate flexibility for large and small installations.



CP5i – Smart Thermostat



“The best,
just got
better”

Combi range

Thermostats

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 & connected via OpenTherm®

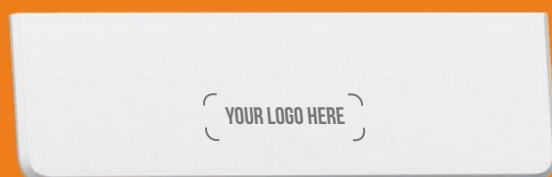
Product Code	CP4B	CP4M	CP4	CP4V2	CP4D	CP4-HW-OT	CP4i	CP5i
								
Smart / App Control			✓*	✓*	✓*	✓*	✓	✓
Wireless			✓	✓	✓	✓	✓	✓
Battery Powered	✓		✓	✓	✓	✓	✓	✓
Hardwired		✓						
Boiler Plus Compliant	✓	✓	✓	✓	✓	✓	✓	✓
OpenTherm®	✓	✓	✓	✓	✓	✓	✓	✓
5 Year Warranty	✓	✓	✓	✓	✓	✓	✓	✓
Boost Function	✓	✓	✓	✓	✓	✓	✓	✓
Industry Standard Backplate		✓		✓**	✓**			✓**
Service Interval	✓	✓	✓	✓	✓	✓	✓	✓

GW04 Gateway is required to enable App Control

** RF1B Receiver has an Industry Standard Backplate

Order your branded flaps >

with your contact details on the inside.





Radiator

Heating Control System

Individual Room Control

The eTRV Smart Radiator Thermostat from EPH Controls is designed to control the heating of individual radiators in your home.

Its advanced features and remote control capability allows you to optimise the heating in specific rooms or zones in your home.

The eTRV provides convenience, energy savings and precise controls over your homes heating making it the smart choice for a modern smart home.



**Matching
Interior?**

Absolutely!



Optional colour covers for eTRVs



Black



Anthracite



Brass



Rose
Gold



Ferrari
Red



Orange



Green



Royal
Blue



16 Zone Controller



Add a GW04 Gateway to upgrade to EMBER App Control



PRODUCT CODE	NUMBER OF ZONES	OPERATING PERIODS	SCREEN DIMENSIONS
RF16	16	6 per day	100 x 35 mm
POWER SUPPLY	BACKPLATE	CONTACT RATING	SWITCH OUTPUT
230Vac ± 10%	6 pin	5(1)A 230Vac	SPDT Volt Free

GW04 WiFi Gateway



Used to upgrade your RF16 to EMBER App Control



PRODUCT CODE	CONNECTIVITY OPTIONS	FREQUENCY BANDS	
GW04	RF & WiFi Interface	2.4 or 5GHz	
POWER SUPPLY	PORT TYPE	RF RANGE	ACCESSORIES INCL.
230Vac ±10%	Micro USB	10m	USB Plug & Cable

RF Smart Radiator Thermostat

Designed for use with EPH Controls TRV valves



PRODUCT CODE	TYPE	TEMP RANGE	CONNECTION
eTRV	Radiator Thermostat	5 ... 35°C	M30 x 1.5
POWER SUPPLY	DIMENSIONS	RF RANGE	FOR USE WITH
2 x AA (incl.)	86 x 86 x 25mm	Max 30m	RF16 & EMBER RS
PRODUCT CODE	DESCRIPTION	COMPATIBLE WITH NON EPH VALVE	
eTRV-ACS	TRV rings for	Danfoss RA, RAVL, RAV, Caleffi, Giacomini & M28	
eTRV-EXT	Spindle extension for	Myson valves	

TRV Body - 15mm



PRODUCT CODE	CONNECTION TYPE	BI DIRECTIONAL	MAX. FLOW TEMP.
TRVB15	15mm Compression	Yes	90°C
NOMINAL FLOW RATE	MAX. DIFFERENTIAL PRESSURE	MAX. STATIC PRESSURE	CONNECTION
190 l/h	0.6 bar	10 bar	M30 x 1.5

Wireless Smart Cylinder Thermostat



Designed for use with EPH Controls SEMBTRV22



PRODUCT CODE	TYPE	TEMP RANGE	CONNECTION
eTRV-HW	Hot Water Thermostat	5 ... 90°C	M30 x 1.5
POWER SUPPLY	DIMENSIONS	RF RANGE	FOR USE WITH
2 x AA (incl.)	86 x 86 x 25mm	Max 30m	RF16 & EMBER RS

2 Port Valve - 22mm



PRODUCT CODE	CONNECTION TYPE	BI DIRECTIONAL	MAX. FLOW TEMP.
SEMTRVB22	22mm Compression	No	90°C
FLOW RATE	MAX. DIFFERENTIAL PRESSURE	MAX. STATIC PRESSURE	CONNECTION
4.4Kvs	1.0 bar	10	M30 x 1.5



Programmer

Heating Control System

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.

1 APP
4
SYSTEMS



Pack Guide

			R17-RF ^{V2} 1 Zone Timeswitch 	R27-RF ^{V2} 2 Zone Programmer 	R37-RF ^{V2} 3 Zone Programmer 	R47-RF ^{V2} 4 Zone Programmer 	RFR ^{V2} Room Thermostat 	RFC ^{V2} Cylinder Thermostat 	GW04 Dualband Gateway 
1 Zone	EMBER PS01		1				1		1
	EMBER PS01a		1						1
2 Zone	EMBER PS02			1			1		1
	EMBER PS03			1			2		1
	EMBER PS04			1			1	1	1
	EMBER PS04a			1					1
3 Zone	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
4 Zone	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



1 Zone RF Timeswitch



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



Add a GW04 Gateway to upgrade to EMBER App Control



PRODUCT CODE	NUMBER OF ZONES	BOOST PERIOD	PIN LOCK
R17-RF ^{V2}	1	30min, 1h, 2h, 3h	2 Options
POWER SUPPLY	BACKPLATE	CONTACT RATING	SWITCH OUTPUT
230Vac ±10%	6 Pin	3(1)A 230Vac	SPDT Volt Free

2 Zone RF Programmer



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



Add a GW04 Gateway to upgrade to EMBER App Control



PRODUCT CODE	NUMBER OF ZONES	BOOST PERIOD	PIN LOCK
R27-RF ^{V2}	2	30min, 1h, 2h, 3h	2 Options
POWER SUPPLY	BACKPLATE	CONTACT RATING	SWITCH OUTPUT
230Vac ±10%	6 Pin	3(1)A 230Vac	SPDT 230Vac

3 Zone RF Programmer



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



Add a GW04 Gateway to upgrade to EMBER App Control



PRODUCT CODE	NUMBER OF ZONES	BOOST PERIOD	PIN LOCK
R37-RF ^{V2}	3	30min, 1h, 2h, 3h	2 Options
POWER SUPPLY	BACKPLATE	CONTACT RATING	SWITCH OUTPUT
230Vac ±10%	8 Pin	3(1)A 230Vac	SPDT 230Vac

4 Zone RF Programmer



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



Add a GW04 Gateway to upgrade to EMBER App Control



PRODUCT CODE	NUMBER OF ZONES	BOOST PERIOD	PIN LOCK
R47-RF ^{V2}	4	30min, 1h, 2h, 3h	2 Options
POWER SUPPLY	BACKPLATE	CONTACT RATING	SWITCH OUTPUT
230Vac ±10%	8 Pin	3(1)A 230Vac	SPST 230Vac

GW04 WiFi Gateway



Used to upgrade your R_7-RF^{V2} to EMBER App Control



PRODUCT CODE	CONNECTIVITY OPTIONS	FREQUENCY BANDS	
GW04	RF & WiFi Interface	2.4 or 5GHz	
POWER SUPPLY	PORT TYPE	RF RANGE	ACCESSORIES INCLUDED
230Vac ±10%	Micro USB	10m	USB Plug & Cable



PS

EMBER Programmer System – RF Thermostats

RF Recessed Thermostat with Setback Function – Mains powered TOUCH



PS

US



RDT-RF-TW



RDT-RF-TB

NEW

PRODUCT CODE	MOUNTING TYPE	TEMP RANGE	FEATURES
RDT-RF-TW	Recessed	5 ... 35°C	On/Off Button Delay Start / TPI
RDT-RF-TB	Recessed	5 ... 35°C	On/Off Button Delay Start / TPI
POWER SUPPLY	SWITCHING DIFFERENTIAL	RF RANGE	FOR USE WITH
230Vac ±10%	0 ... 1.0°C	30m	R_7-RF ^{V2} or UFH10-RF

ErP Class IV = 2%

Compatible with up to 2 External Temp Sensors

Accessories: NTC10K-Ferrule & NTC Housing



RF Thermostat with Setback Function – Battery powered TOUCH



PS

US



RFRB-TW



RFRB-TB

NEW

PRODUCT CODE	MOUNTING TYPE	TEMP RANGE	FEATURES
RFRB-TW	Surface or Stand	5 ... 35°C	On/Off Button Delay Start / TPI
RFRB-TB	Surface or Stand	5 ... 35°C	On/Off Button Delay Start / TPI
POWER SUPPLY	SWITCHING DIFFERENTIAL	RF RANGE	FOR USE WITH
4 x AAA (incl.)	0 ... 1.0°C	30m	R_7-RF ^{V2} or UFH10-RF

ErP Class IV = 2%

Compatible with 1 External Temp Sensor

Accessories: NTC10K-Plug & NTC Housing



RF Thermostat with Setback Function – Battery powered



PS

US



ErP Class IV = 2%

Compatible with 1 External Temp Sensor

Accessories: NTC10K-Plug & NTC Housing

PRODUCT CODE	MOUNTING TYPE	TEMP RANGE	FEATURES
RFRB ^{V2}	Surface or Stand	5 ... 35°C	On/Off Button Delay Start / TPI
RFR ^{V2}	Surface or Stand	5 ... 35°C	Boost Button Delay Start / TPI
POWER SUPPLY	SWITCHING DIFFERENTIAL	RF RANGE	FOR USE WITH
2 x AAA (incl.)	0 ... 1.0°C	30m	R_7-RF ^{V2} or UFH10-RF



RF Dial Thermostat with Setback Function – Mains powered



PS

US



ErP Class IV = 2%

Not compatible with External Temp Sensors

PRODUCT CODE	MOUNTING TYPE	TEMP RANGE	FEATURES
HDT-RF	Surface	5 ... 35°C	Delay Start / TPI / Setback Function
POWER SUPPLY	SWITCHING DIFFERENTIAL	RF RANGE	FOR USE WITH
230Vac ± 10%	0 ... 1.0°C	30m	R_7-RF ^{V2} or UFH10-RF



RF Recessed Thermostat with Setback Function – Mains powered



PRODUCT CODE	MOUNTING TYPE	TEMP RANGE	FEATURES
RDT-RF	Recessed	5 ... 35 °C	Delay Start / TPI / Setback Function

ErP Class IV = 2%
Compatible with 1 External Temp Sensor
Accessories: NTC10K-Ferrule & NTC Housing

POWER SUPPLY	SWITCHING DIFFERENTIAL	RF RANGE	FOR USE WITH
230Vac ± 10%	0 ... 1.0 °C	30m	R_7-RF ^{v2} or UFH10-RF



RF Surface Mounted Thermostat with Setback Function – Mains powered



PRODUCT CODE	MOUNTING TYPE	TEMP RANGE	FEATURES
CDT2-RF	Surface	5 ... 35 °C	Delay Start / TPI / Setback Function

ErP Class IV = 2%
Compatible with 1 External Temp Sensor
Accessories: NTC10K-Ferrule & NTC Housing

POWER SUPPLY	SWITCHING DIFFERENTIAL	RF RANGE	FOR USE WITH
230Vac ± 10%	0 ... 1.0 °C	30m	R_7-RF ^{v2} or UFH10-RF



RF Surface Mounted Thermostat with Setback Function – Battery powered



PRODUCT CODE	MOUNTING TYPE	TEMP RANGE	FEATURES
CRT2-RF	Surface	5 ... 35 °C	Delay Start / TPI / Setback Function

ErP Class IV = 2%
Compatible with 1 External Temp Sensor
Accessories: NTC10K-Ferrule & NTC Housing

POWER SUPPLY	SWITCHING DIFFERENTIAL	RF RANGE	FOR USE WITH
2 x AA (incl.)	0 ... 1.0 °C	30m	R_7-RF ^{v2} or UFH10-RF



RF Cylinder Thermostat – Batter powered



PRODUCT CODE	MOUNTING TYPE	TEMP RANGE	FEATURES
RFC ^{v2}	Surface	10 ... 90 °C	Boost Button

ErP Class IV = 1%

POWER SUPPLY	SWITCHING DIFFERENTIAL	RF RANGE	FOR USE WITH
2 x AAA (incl.)	0 ... 10.0 °C	30m	R_7-RF ^{v2} or UFH10-RF



COMING SOON

Smart Gateway

Now with Ethernet Connectivity

GW04^{V2}



Wi-Fi + LAN
Connectivity



1 APP 4 SYSTEMS



Introducing the next generation of Gateway

The GW04^{V2} features a built-in Ethernet port, providing a more reliable and straightforward connection to your home router. This improvement has been fully tested to simplify installation and deliver stable connectivity.

The new gateway also supports a greater number of device connections. It can now pair with 2 x UFH10-RF on a single gateway, offering increased system flexibility. It will also support control of eTRV with the UFH10-RF through the EMBER App.

GW04 WiFi Gateway



Used to upgrade your system to EMBER App Control



PRODUCT CODE	CONNECTIVITY OPTIONS	FOR USE WITH
GW04	RF & WiFi Interface	R17-RF ^{V2} , R27-RF ^{V2} , R37-RF ^{V2} , R47-RF ^{V2} , CP4, CP4 ^{V2} , CP4D, CP4-HW-OT, UFH10-RF, RF16

POWER SUPPLY	PORT TYPE	ACCESSORIES INCLUDED	FREQUENCY BANDS
230Vac ±10%	Micro USB	USB Plug & Cable	2.4 or 5GHz

GW01 WiFi Gateway



Used to upgrade your programmer to EMBER App Control



PRODUCT CODE	CONNECTIVITY OPTIONS	FOR USE WITH
GW01	RF & WiFi Interface	R17-RF, R27-RF, R37-RF, R47-RF Version 1 only

POWER SUPPLY	PORT TYPE	ACCESSORIES INCLUDED	FREQUENCY BANDS
230Vac ±10%	Mini USB	USB Plug & Cable	2.4GHz

RF Programmer Packs

These wireless Programmer Packs provide a 1 - 4 zone solution for Wireless 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 devices.

1 Zone Wireless Timeswitch Pack

Add a GW04 Gateway to upgrade to EMBER App Control

PS



PRODUCT CODE	TIMESWITCH	THERMOSTAT	
CWP1E	R17-RF ^{V2}	RFR	with Boost button
CWP1EB	R17-RF ^{V2}	RFRB	with On/Off button
CWP1EC	R17-RF ^{V2}	RFC	with Boost button

2 Zone Wireless Programmer Pack

Add a GW04 Gateway to upgrade to EMBER App Control

PS



PRODUCT CODE	PROGRAMMER	THERMOSTATS	
CWP2E	R27-RF ^{V2}	RFR ^{V2}	RFC
CWP2CE	R27-RF ^{V2}	RFR ^{V2}	-
CWP2RE	R27-RF ^{V2}	RFR ^{V2} x 2	-

3 Zone Wireless Programmer Pack

Add a GW04 Gateway to upgrade to EMBER App Control

PS



PRODUCT CODE	PROGRAMMER	THERMOSTATS	
CWP3E	R37-RF ^{V2}	RFR ^{V2} x 2	RFC
CWP3CE	R37-RF ^{V2}	RFR ^{V2} x 2	-
CWP3RE	R37-RF ^{V2}	RFR ^{V2} x 3	-

4 Zone Wireless Programmer Pack

Add a GW04 Gateway to upgrade to EMBER App Control

PS



PRODUCT CODE	PROGRAMMER	THERMOSTATS	
CWP4E	R47-RF ^{V2}	RFR ^{V2} x 3	RFC
CWP4CE	R47-RF ^{V2}	RFR ^{V2} x 3	-
CWP4RE	R47-RF ^{V2}	RFR ^{V2} x 4	-

GW04 WiFi Gateway

Used to upgrade your CWP Pack to EMBER App Control

PS



PRODUCT CODE	CONNECTIVITY OPTIONS	FREQUENCY BANDS	
GW04	RF & WiFi Interface	2.4 or 5GHz	
POWER SUPPLY	PORT TYPE	RF RANGE	ACCESSORIES INCLUDED
230Vac ±10%	Micro USB	10m	USB Plug & Cable

RF Heating Control Packs

Y Plan RF Heating Control Pack



PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTATS		WIRING CENTRE
CR22PRF	R27-RF ^{V2}	B322PF	RFR ^{V2}	RFC ^{V2}	WC2
CR28PRF	R27-RF ^{V2}	B328PF	RFR ^{V2}	RFC ^{V2}	WC2

S Plan RF Heating Control Pack



PRODUCT CODE	PROGRAMMER	MOTORISED VALVES	THERMOSTATS		WIRING CENTRE
CR221PRF	R27-RF ^{V2}	V221P x 2	RFR ^{V2}	RFC ^{V2}	WC2
CR222PRF	R27-RF ^{V2}	V222P x 2	RFR ^{V2}	RFC ^{V2}	WC2
CR228PRF	R27-RF ^{V2}	V228P x 2	RFR ^{V2}	RFC ^{V2}	WC2

S Plan RF Unvented Heating Control Pack



PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTAT	WIRING CENTRE
CR221PURF	R27-RF ^{V2}	V221P	RFR ^{V2}	WC2
CR222PURF	R27-RF ^{V2}	V222P	RFR ^{V2}	WC2
CR228PURF	R27-RF ^{V2}	V228P	RFR ^{V2}	WC2

S Plan RF Heating Control Pack with Hardwired Cylinder Thermostat



PRODUCT CODE	PROGRAMMER	MOTORISED VALVES	THERMOSTATS		WIRING CENTRE
CRF2P-211221	R27-RF ^{V2}	V221P x 2	RFR ^{V2}	WRP	WC2
CRF2P-221221	R27-RF ^{V2}	V222P x 2	RFR ^{V2}	WRP	WC2

2 Zone Combi Zoning RF Control Pack



PRODUCT CODE	PROGRAMMER	MOTORISED VALVES	THERMOSTATS		WIRING CENTRE
CRF2P-212201	R27-RF ^{V2}	V221P x 2	RFR ^{V2} x 2		WC2
CRF2P-222201	R27-RF ^{V2}	V222P x 2	RFR ^{V2} x 2		WC2

3 Zone RF Heating Control Pack



PRODUCT CODE	PROGRAMMER	MOTORISED VALVES	THERMOSTATS		WIRING CENTRE
CR3PRF	R37-R ^{V2} F	V221P x 3	RFR ^{V2} x 2	RFC ^{V2}	WC2
CR322PRF	R37-RF ^{V2}	V222P x 3	RFR ^{V2} x 2	RFC ^{V2}	WC2
CR328PRF	R37-R ^{V2} F	V228P x 3	RFR ^{V2} x 2	RFC ^{V2}	WC2



3 Zone RF Unvented Heating Control Pack



PRODUCT CODE	PROGRAMMER	MOTORISED VALVES	THERMOSTATS	WIRING CENTRE
CR3PURF	R37-RF ^{V2}	V221P x 2	RFR ^{V2} x 2	WC2
CR322PURF	R37-RF ^{V2}	V222P x 2	RFR ^{V2} x 2	WC2
CR328PURF	R37-RF ^{V2}	V228P x 2	RFR ^{V2} x 2	WC2

3 Zone RF Heating Control Pack with Hardwired Cylinder Thermostat



PRODUCT CODE	PROGRAMMER	MOTORISED VALVES	THERMOSTATS	WIRING CENTRE
CRF3P-312221	R37-RF ^{V2}	V221P x 3	RFR ^{V2} x 2 WRP	WC2
CRF3P-322221	R37-RF ^{V2}	V222P x 3	RFR ^{V2} x 2 WRP	WC2

3 Zone Combi Zoning RF Control Pack



PRODUCT CODE	PROGRAMMER	MOTORISED VALVES	THERMOSTATS	WIRING CENTRE
CRF3P-313201	R37-RF ^{V2}	V221P x 3	RFR ^{V2} x 3	WC2
CRF3P-323201	R37-RF ^{V2}	V222P x 3	RFR ^{V2} x 3	WC2

4 Zone RF Heating Control Pack



PRODUCT CODE	PROGRAMMER	MOTORISED VALVES	THERMOSTATS	WIRING CENTRE
CR4PRF	R47-RF ^{V2}	V221P x 4	RFR ^{V2} x 3 RFC ^{V2}	WC2
CR422PRF	R47-RF ^{V2}	V222P x 4	RFR ^{V2} x 3 RFC ^{V2}	WC2
CR428PRF	R47-RF ^{V2}	V228P x 4	RFR ^{V2} x 3 RFC ^{V2}	WC2

2 Zone Priority Hot Water Control Pack with RF Programmable Thermostats



PRODUCT CODE	PROGRAMMER	MOTORISED VALVES	THERMOSTATS	WIRING CENTRE
C00P-211981	-	V221P x 2	CP4 CP4-HW-OT	WC2
C00P-221981	-	V222P x 2	CP4 CP4-HW-OT	WC2

2 Zone Combi Zoning Control Pack with RF Programmable Thermostats



PRODUCT CODE	PROGRAMMER	MOTORISED VALVES	THERMOSTATS	WIRING CENTRE
C00P-212901	-	V221P x 2	CP4 x 2	WC2
C00P-222901	-	V222P x 2	CP4 x 2	WC2

TR1 TR2^{V2} RF Mains Switch

Ideal for any installation where its not possible to run cables



PRE-PAIRED
Components



The TR1 TR2^{V2}, 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.

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

RF Mains Switch



PRODUCT CODE	DESCRIPTION	RF FREQUENCY	MOUNTING TYPE
TR1TR2 ^{V2}	RF Mains switch	868MHz	Surface
POWER SUPPLY	CONTACT RATING	SWITCH OUTPUT	RF RANGE
230Vac $\pm 10\%$	3A 230Vac	SPST Volt Free	30m
BACK PLATE	COMMUNICATION		
6 Pin	A to B or B to A. Independently or Simultaneously		



Example 1

One Way RF Switch (Timeswitch to Boiler - Mains Switching)

In this example, a timeswitch is connected to the TR1.

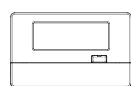
When the timeswitch is turned on an RF signal is sent from the TR1 to the TR2.

This then sends a 230V signal to activate the boiler. (The boiler can also be activated with low voltage switching).

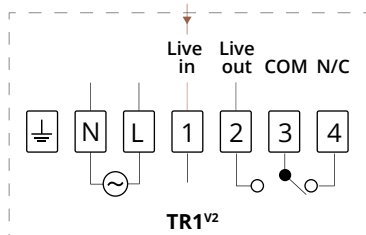


TR1^{V2}

[A] On TR1
When **Live in** receives 230V from the timeswitch, TR1 sends a wireless signal to TR2.



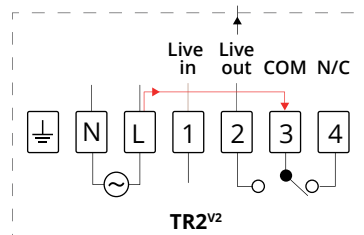
Timeswitch



TR1^{V2}



Boiler



TR2^{V2}



TR2^{V2}

[B] On TR2
The **COM & Live out** contact closes, sending 230V to activate the boiler.

Example 2

Two Way RF Switch (Pump Overrun)

In this example the boiler is remote from the pump. The timeswitch is connected to the TR1. When the timeswitch is turned on an RF signal is sent from TR1 to TR2. The boiler will activate and it will signal the pump to activate. A signal is sent from TR2 to TR1 and the pump activates. When the timeswitch stops calling, the TR1 will signal the TR2 and the boiler will stop. The TR2 will signal the TR1 to keep the pump running until the heat is dissipated.

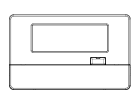
Timeswitch to Boiler



TR1V2

[A] On TR1
When Live in receives 230V from the timeswitch, TR1 sends a wireless signal to TR2.

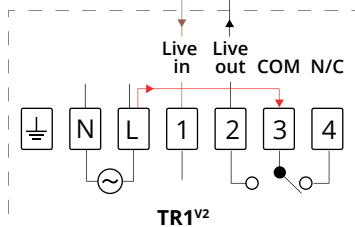
[C] On TR1
The COM & Live out contact closes, sending 230V to activate the pump.



Timeswitch



Pump



Boiler to Pump - Mains Switching

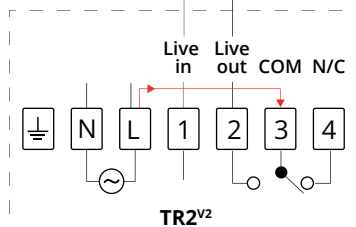


Pump Overrun Boiler



TR2V2

[B] On TR2
The COM & Live out contact closes, sending 230V to activate the boiler. When the boiler turns off, the pump overrun activates, sending 230V to the Live in contact. TR2 then sends a wireless signal to TR1.



Example 3

Two Way RF Switch (Unvented Cylinder)

Part G Compliant

In this example, a timeswitch is connected to the TR1. When the timeswitch is turned on an RF signal is sent from TR1 to TR2. This is wired through the high limit and control stat on the unvented cylinder. The motorised valve is locally wired to the switch live from the unvented cylinder thermostat. The Auxiliary wire from the motorised valve is wired to the TR2. An RF signal is sent from TR2 to TR1 and this switches the boiler.

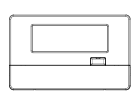
Timeswitch to High Limit Thermostat



TR1V2

[A] On TR1
When Live in receives 230V from the timeswitch, TR1 sends a wireless signal to TR2.

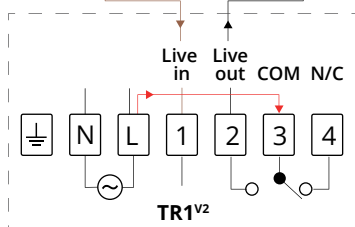
[C] On TR1
The COM & Live out contact closes, sending 230V to activate the boiler.



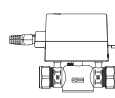
Timeswitch



Boiler



Motorised Valve to Boiler - Mains Switching



Motorised Valve Auxiliary Switch

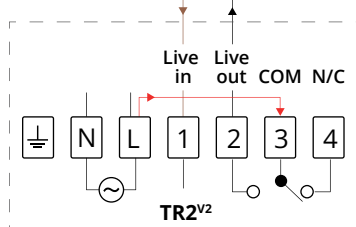


High Limit Thermostat



TR2V2

[B] On TR2
The COM & Live out contact closes, sending 230V to the high limit thermostat, powering the brown cable of the motorised valve. When the motorised valve auxiliary switch engages, it sends 230V to the Live in contact. TR2 then sends a wireless signal to TR1.



Example 4

Two Way RF Switch (Boiler Interlock)

In this example, a timeswitch is connected to the TR1. When the timeswitch 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.

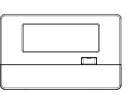
Timeswitch to Motorised Valve



TR1V2

[A] On TR1
When Live in receives 230V from the timeswitch, TR1 sends a wireless signal to TR2.

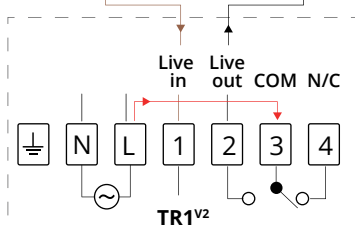
[C] On TR1
The COM & Live out contact closes, sending 230V to activate the boiler.



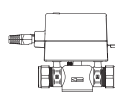
Timeswitch



Boiler



Motorised Valve to Boiler - Mains Switching

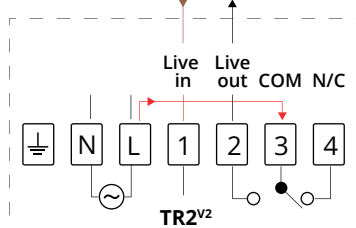


Auxiliary Switch Valve



TR2V2

[B] On TR2
The COM & Live out contact closes, sending 230V to activate the motorised valve. When the valve auxiliary switch engages, it sends 230V to the Live in contact. TR2 then sends a wireless signal to TR1.



RF Room & Cylinder Thermostats

RF Thermostat & Receiver



RFRA^{V2} RF1C

ErP Class I = 1%



PRODUCT CODE	COMPONENTS	RF RANGE	INTERNAL TEMP SENSOR
CP3 ^{V2}	RFRA ^{V2} & RF1C	30m	NTC100K
THERMOSTAT	POWER SUPPLY	TEMP RANGE	FEATURES
RFRA ^{V2}	2 x AAA (incl.)	5 ... 35°C	On/Off Button
RECEIVER	POWER SUPPLY	CONTACT RATING	SWITCH OUTPUT
RF1C	230Vac ±10%	3A 230Vac	SPDT Volt Free

RF Cylinder Thermostat & Receiver



RFCA RF1C



PRODUCT CODE	COMPONENTS	RF RANGE	EXTERNAL TEMP SENSOR
RFCP ^{V2}	RFCA & RF1C	30m	NTC10K (incl.)
THERMOSTAT	POWER SUPPLY	TEMP RANGE	FEATURES
RFCA	2 x AAA (incl.)	10 ... 90°C	On/Off Button
RECEIVER	POWER SUPPLY	CONTACT RATING	SWITCH OUTPUT
RF1C	230Vac ±10%	3A 230Vac	SPDT Volt Free

RF Programmable Cylinder Thermostat & Receiver

Add a GW04 Gateway to upgrade to EMBER App Control (see page 22) **TS**



RFRP-HW-OT RF1A-OT

ErP Class V = 3%,

* ErP Class VIII = 5%

* (When 3 no. thermostats are fitted in conjunction with a modulating boiler.)



PRODUCT CODE	COMPONENTS	RF RANGE	EXTERNAL TEMP SENSOR
CP4-HW-OT	RFRP-HW-OT & RF1A-OT	30m	NTC10K (incl.)
THERMOSTAT	POWER SUPPLY	TEMP RANGE	FEATURES
RFRP-HW-OT	2 x AA (incl.)	10 ... 90°C	Optimum Start & TPI
RECEIVER	POWER SUPPLY	CONTACT RATING	SWITCH OUTPUT
RF1A-OT	230Vac ±10%	10(3)A 230Vac	SPDT Volt Free

Immersion Controller – Mains powered



PRODUCT CODE	DIMENSION	BOOST PERIOD	PIN LOCK
IMC	170 x 116 x 63 mm	30min, 1h, 2h & 3h	30mins / 1hr / 2hr / 3hr

POWER SUPPLY	OPERATING PERIODS	CONTACT RATING	SWITCH OUTPUT
230Vac ± 10%	3 per day	16A 230Vac	1

Electronic Boost Timer – Mains powered



PRODUCT CODE	MAX LOAD	BOOST PERIOD
BST3	3 Kw	15min, 30min, 1hr, 2hr & 3hr

POWER SUPPLY	CONTACT RATING
230Vac ± 10%	13A 230Vac

Cylinder / Room Thermostat – Mains powered



Cylinder or Room thermostat with
External Temp Sensor NTC10K-Plug (incl.)



PRODUCT CODE	POWER SUPPLY	CONTACT RATING	SWITCH OUTPUT
CDC2	230Vac ± 10%	10(3)A 230Vac	SPDT Volt Free

PARAMETER	TEMP RANGE	SWITCHING DIFFERENTIAL	FEATURES
Cylinder	5 ... 90°C	0 ... 20°C	On/Off Button
Room	5 ... 35°C	0 ... 1°C	Delay Start and TPI

ACCESSORIES CODE	DESCRIPTION
NTC Housing	Temperature Sensor Housing

Cylinder Thermostat with High Limit – Mains powered



Built-in Legionaires function



PRODUCT CODE	POWER SUPPLY	CONTACT RATING	EXTERNAL TEMP SENSOR
EDBS	230Vac ± 10%	10A 230Vac	NTC10K - Ferrule x 2

POWER SUPPLY	TEMP RANGE	SWITCHING DIFFERENTIAL	HIGH LIMIT CUT OUT
230Vac ± 10%	10 ... 90°C	0 ... 20°C	85°C

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 Valve - Compression

DETACH PRO ►



V22_P c/w
Light
Detach cable
Detach button

DS22_P c/w
Light
Detach cable

V22_PC c/w
Fixed Cable
Detach button

PRODUCT CODE	CONNECTION TYPE	FLOW RATE	MAX. CLOSE OFF PRESSURE	BI-DIRECTIONAL FLOW	INDICATE LIGHT
V221P	3/4" compression	4.6 kvs	1.0 bar	No	Yes
V222P	22mm compression	4.6 kvs	1.0 bar	No	Yes
V228P	28mm compression	6.8 kvs	0.6 bar	No	Yes
DS222P	22mm compression	4.6 kvs	1.0 bar	Yes	Yes
DS228P	28mm compression	6.8 kvs	0.6 bar	Yes	Yes
V222PC	22mm compression	4.6 kvs	1.0 bar	No	No
V228PC	28mm compression	6.8 kvs	0.6 bar	No	No



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

2 Port Valve - Female BSP

DETACH PRO ►



V22_FP c/w
Light
Detach cable
Detach button

PRODUCT CODE	CONNECTION TYPE	FLOW RATE	MAX. CLOSE OFF PRESSURE	BI-DIRECTIONAL FLOW	INDICATE LIGHT
V222FP	3/4" female BSP	4.6 kvs	1.0 bar	No	Yes
V228FP	1" female BSP	6.8 kvs	0.6 bar	No	Yes
V232FP	1 1/4" female BSP	8.0 kvs	0.3 bar	No	Yes



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

2 Port Valve - Compression - Normally Open

DETACH PRO ►



PRODUCT CODE	CONNECTION TYPE	FLOW RATE	MAX. CLOSE OFF PRESSURE	BI-DIRECTIONAL FLOW	INDICATE LIGHT
DS222PNO	22mm compression	4.6 kvs	1.0 bar	Yes	Yes
DS228PNO	22mm compression	6.8 kvs	0.6 bar	Yes	Yes



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

3 Port Diverter Valve



PRODUCT CODE	CONNECTION TYPE	FLOW RATE	MAX. CLOSE OFF PRESSURE	INDICATE LIGHT
B322DIV	22mm compression	7.1 kvs	1.6 bar (A) 1.2 bar (B)	No
B328DIV	28mm Compression	7.6 kvs	1.2 bar (A) 0.8 bar (B)	No
CONTACT RATING		MAX AMBIENT TEMP	MAX FLUID TEMP	
5(2)A 230Vac		50 °C	88 °C	

3 Port Mid Position Valve



PRODUCT CODE	CONNECTION TYPE	FLOW RATE	MAX. CLOSE OFF PRESSURE	INDICATE LIGHT
B322PF	22mm Compression	7.1 kvs	1.6 bar (A) 1.2 bar (B)	No
B328PF	28mm Compression	7.6 kvs	1.2 bar (A) 0.8 bar (B)	No
CONTACT RATING		MAX AMBIENT TEMP	MAX FLUID TEMP	
5(2)A 230Vac		50 °C	88 °C	

Actuators for EPH Valves

DETACH PRO ►



A1P c/w
Light
Detach cable
Detach button

PRODUCT CODE	CONTACT RATING	TYPE	COMPATIBLE WITH	INDICATE LIGHT
A1P	11(3)A 230Vac	2 Port	V22_D / V22_P	Yes
D1PF	5(2)A 230Vac	3 Port	B322P / B328P B322PF / B328PF	No

Actuators for Non-EPH Valves

DETACH PRO ►



DS1P & M1P c/w
Light
Detach cable

* Note: The DS1P replaces most Sunvic SZM models, except those with a detach button and no mounting screws.



D1PF c/w
Detach cable

Drayton® is a registered trademark of Schneider Electric Controls UK Limited & has no connection with EPH Controls.

PRODUCT CODE	CONTACT RATING	TYPE	COMPATIBLE WITH NON-EPH VALVES	INDICATE LIGHT
A1P	11(3)A 230Vac	2 Port	Horstmann F222 / F228	Yes
C1P	11(3)A 230Vac	2 Port	Honeywell V404 Horstmann Z222 / Z228	Yes
DS1P	11(3)A 230Vac	2 Port	Danfoss HP22B / HP28B / HP15B Danfoss HP1.75B / HP1.0B Sunvic SZ / SZM / SM *	Yes
DT1P	11(3)A 230Vac	2 Port	Drayton® ZA5/679-2 / ZA6/779-2	Yes
M1P	11(3)A 230Vac	2 Port	Myson MPE22/28/MCZV2 3/4 / V21	Yes
D1PF	5(2)A 230Vac	3 Port	Honeywell V407 Horstmann Z322 / Z328	No
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
CH35	3 port 5 wire actuators
PRODUCT CODE	DESCRIPTION
DP2.5M	2.5 Metre Detach cable for 2 port 5 wire actuators
DP5M	5 Metre Detach cable for 2 port 5 wire actuators

Underfloor Controls 230V

Wiring Centre 5 Zone 230V



PRODUCT CODE	UFH-RAD/HW SWITCHES	NO. OF ZONES	TIME INPUTS
UFH5	2	5	3
POWER SUPPLY	CONTACT RATING	HEAT ENABLE OUTPUT	UFH PUMP OUTPUT
230Vac $\pm 10\%$	3(1)A	Volt Free	230V~

Wiring Centre 10 Zone 230V



PRODUCT CODE	UFH-RAD/HW SWITCHES	NO. OF ZONES	TIME INPUTS
UFH10	2	10	4
POWER SUPPLY	CONTACT RATING	HEAT ENABLE OUTPUT	UFH PUMP OUTPUT
230Vac $\pm 10\%$	3(1)A	Volt Free	230V~

Dial Thermostat - Battery Powered



ErP Class IV = 2%



PRODUCT CODE	POWER SUPPLY	CONTACT RATING	TEMP RANGE
HRT	2 x AA Batteries (Incl)	8(3)A 230Vac	5 ... 35°C
SWITCH OUTPUT	MOUNTING TYPE	SWITCHING DIFFERENTIAL	FEATURES
SPDT Volt Free	Surface	0 ... 1.0°C	Delay Start / TPI

Dial Thermostat with Setback Function - Mains powered



ErP Class IV = 2%



PRODUCT CODE	POWER SUPPLY	CONTACT RATING	TEMP RANGE
HDT	230Vac $\pm 10\%$	7A 230Vac	5 ... 35°C
SWITCH OUTPUT	MOUNTING TYPE	SWITCHING DIFFERENTIAL	FEATURES
SPST Volt Free	Surface	0 ... 1.0°C	Delay Start / TPI

Recessed Thermostat with Setback Function – Mains powered



ErP Class IV = 2%



PRODUCT CODE	POWER SUPPLY	CONTACT RATING	TEMP RANGE
RDT	230Vac ± 10%	10(3)A 230Vac	5 ... 35°C

SWITCH OUTPUT	MOUNTING TYPE	SWITCHING DIFFERENTIAL	FEATURES
SPDT Volt Free	Recessed	0 ... 1.0°C	Delay Start / TPI / Setback Function

Recessed Programmable Thermostat – Mains powered



ErP Class IV = 2%

Compatible with 1 External Temp Sensor

Accessories: NTC10K-Ferrule & NTC Housing



PRODUCT CODE	POWER SUPPLY	CONTACT RATING	TEMP RANGE
RDTP	230Vac ± 10%	10(3)A 230Vac	5 ... 35°C

SWITCH OUTPUT	MOUNTING TYPE	SWITCHING DIFFERENTIAL	FEATURES
SPDT Volt Free	Recessed	0... 1.0°C	Optimum Start / TPI

Accessories



BOX QTY
250

PRODUCT CODE	DESCRIPTION	FOR USE WITH
NTC10K-Ferrule	Temp Sensor, 2m	RDTP



BOX QTY
100

PRODUCT CODE	DESCRIPTION	FOR USE WITH
NTC Housing	Temp Sensor Housing	NTC10K-Ferrule / Plug

Surface Mounted Thermostat – Battery powered



ErP Class IV = 2%



PRODUCT CODE	POWER SUPPLY	CONTACT RATING	TEMP RANGE
CRT2	2 x AA Batteries (Incl)	8(3)A 230Vac	5 ... 35°C

SWITCH OUTPUT	MOUNTING TYPE	SWITCHING DIFFERENTIAL	FEATURES
SPDT Volt Free	Surface	0 ... 1.0°C	Delay Start / TPI

Underfloor Controls 230V Continued

Surface Mounted Thermostat – Mains powered



ErP Class IV = 2%



PRODUCT CODE	POWER SUPPLY	CONTACT RATING	TEMP RANGE
CDT2	230Vac ± 10%	7(3)A 230Vac	5 ... 35°C
SWITCH OUTPUT	MOUNTING TYPE	SWITCHING DIFFERENTIAL	FEATURES
SPDT Volt Free	Surface	0 ... 1.0°C	Delay Start / TPI

Surface Mounted Programmable Thermostat – Battery powered



ErP Class IV = 2%



PRODUCT CODE	POWER SUPPLY	CONTACT RATING	TEMP RANGE
CRTP2	2 x AA Batteries (Incl)	8(3)A 230Vac	5 ... 35°C
SWITCH OUTPUT	MOUNTING TYPE	SWITCHING DIFFERENTIAL	FEATURES
SPDT Volt Free	Surface	0 ... 1.0°C	Optimum Start / TPI

Surface Mounted Programmable Thermostat – Mains powered



ErP Class IV = 2%



PRODUCT CODE	POWER SUPPLY	CONTACT RATING	TEMP RANGE
CDTP2	230Vac ± 10%	7(3)A 230Vac	5 ... 35°C
SWITCH OUTPUT	MOUNTING TYPE	SWITCHING DIFFERENTIAL	FEATURES
SPDT Volt Free	Surface	0 ... 1.0°C	Optimum Start / TPI

Thermal Actuator



PRODUCT CODE	ACTUATOR TYPE	RUNNING TIME	AUXILIARY SWITCH
TA230	Normally Closed (Open)	3.5 min	-
POWER SUPPLY	MAX. STROKE	SPRING PRESSURE	VALVE CONNECTION
230Vac ±10%	3.5mm	125N	M30 x 1.5

Wiring Centre 10 Zone 24V



24Vac and 230Vac power supply required



PRODUCT CODE	UFH/RAD+HW SWITCHES	NO. OF ZONES	TIME INPUTS
UFH10-24	2	10	4

POWER SUPPLY	CONTACT RATING	HEAT ENABLE OUTPUT	UFH PUMP OUTPUT
24Vac	3(1)A	Volt Free	230V~

For use with RDTP-24 and CDT2-24 thermostats TA230 actuators only

Transformer



PRODUCT CODE	POWER SUPPLY	OUTPUT	MOUNTING
KBE6023T	230Vac	24Vac	Surface / Din Rail

Recessed Programmable Thermostat



ErP Class IV = 2%
Compatible with 1 External Temp Sensor
Accessories: NTC10K-Ferrule & NTC Housing



PRODUCT CODE	POWER SUPPLY	CONTACT RATING	TEMP RANGE
RDTP-24	24Vac	10(3)A 230Vac	5 ... 35°C

SWITCH OUTPUT	MOUNTING TYPE	SWITCHING DIFFERENTIAL	FEATURES
SPDT Volt Free	Recessed	0... 1.0°C	Optimum Start / TPI

Surface Mounted Thermostat



ErP Class IV = 2%



PRODUCT CODE	POWER SUPPLY	CONTACT RATING	TEMP RANGE
CDT2-24	24Vac	10(3)A 230Vac	5 ... 35°C

SWITCH OUTPUT	MOUNTING TYPE	SWITCHING DIFFERENTIAL	FEATURES
SPDT Volt Free	Surface	0... 1.0°C	Delay Start / TPI

Thermal Actuator



PRODUCT CODE	ACTUATOR TYPE	RUNNING TIME	AUXILIARY SWITCH
TA230	Normally Closed (Open)	3.5 min	-

POWER SUPPLY	MAX. STROKE	SPRING PRESSURE	VALVE CONNECTION
230Vac ±10%	3.5mm	125N	M30 x 1.5

Programmings

1 Zone Timeswitch



A17



R17V2



PRODUCT CODE	NUMBER OF ZONES	BOOST PERIOD	SCREEN DIMENSIONS
A17	1	1h, 2h, 3h	48 x 23mm
R17V2	1	30min, 1h, 2h, 3h	100 x 35mm

POWER SUPPLY	BACKPLATE	CONTACT RATING	SWITCH OUTPUT
230Vac $\pm 10\%$	6 Pin	3(1)A 230Vac	SPDT Volt Free

2 Zone Programmer



A27-HW



R27V2



R27-VFV2



PRODUCT CODE	NUMBER OF ZONES	BOOST PERIOD	SCREEN DIMENSIONS
A27-HW	2	1h, 2h, 3h	48 x 23mm
R27V2	2	30min, 1h, 2h, 3h	100 x 35mm

POWER SUPPLY	BACKPLATE	CONTACT RATING	SWITCH OUTPUT
230Vac $\pm 10\%$	6 Pin	3(1)A 230Vac	SPDT 230Vac

PRODUCT CODE	NUMBER OF ZONES	BOOST PERIOD	SCREEN DIMENSIONS
R27-VFV2	2	30min, 1h, 2h, 3h	100 x 35mm

POWER SUPPLY	BACKPLATE	CONTACT RATING	SWITCH OUTPUT
230Vac $\pm 10\%$	6 Pin	3(1)A 230Vac	SPST Volt Free

3 Zone Programmer



PRODUCT CODE	NUMBER OF ZONES	BOOST PERIOD	SCREEN DIMENSIONS
R37V2	3	30min, 1h, 2h, 3h	100 x 35mm

POWER SUPPLY	BACKPLATE	CONTACT RATING	SWITCH OUTPUT
230Vac $\pm 10\%$	8 Pin	3(1)A 230Vac	SPDT 230Vac

4 Zone Programmer



PRODUCT CODE	NUMBER OF ZONES	BOOST PERIOD	SCREEN DIMENSIONS
R47V2	4	30min, 1h, 2h, 3h	100 x 35mm

POWER SUPPLY	BACKPLATE	CONTACT RATING	SWITCH OUTPUT
230Vac $\pm 10\%$	8 Pin	3(1)A 230Vac	SPST 230Vac

Timeswitch / Programmer Compatibility Guide

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 ^{v2}
DANFOSS	GP103E5	•	5/2		•		A17 / R17 ^{v2}
DANFOSS	GP103E7	•	7		•		A17 / R17 ^{v2}
DANFOSS	TS715	•	7		•		A17 / R17 ^{v2}
DANFOSS	TS715Si	•	7		•	•	A17 / R17 ^{v2}
DANFOSS	TS975	•	7		•		A17 / R17 ^{v2}
DANFOSS	SET 1E	•	1		•		A17 / R17 ^{v2}
EPH	A17	•	1-5/2-7		•	•	A17 / R17 ^{v2}
EPH	R17 ^{v2}	•	1-5/2-7		•	•	A17 / R17 ^{v2}
HONEYWELL	ST6100A1001	•	1		•		A17 / R17 ^{v2}
HONEYWELL	ST6100C1009	•	7		•		A17 / R17 ^{v2}
HONEYWELL	ST6100S1000	•	1		•	•	A17 / R17 ^{v2}
HONEYWELL	ST9100A1008	•	1		•		A17 / R17 ^{v2}
HONEYWELL	ST9100C1006	•	7		•		A17 / R17 ^{v2}
HONEYWELL	ST9100S1007	•	1		•	•	A17 / R17 ^{v2}
HORSTMANN	425 CORONET	•	1	•			A17 / R17 ^{v2}
HORSTMANN	H11	•	1		•		A17 / R17 ^{v2}
HORSTMANN	H17	•	7		•		A17 / R17 ^{v2}
HORSTMANN	H11XL	•	1		•		A17 / R17 ^{v2}
HORSTMANN	H17XL	•	7		•		A17 / R17 ^{v2}
HORSTMANN	C11	•	1	•	•		A17 / R17 ^{v2}
HORSTMANN	C17	•	7	•	•		A17 / R17 ^{v2}
INVENSYS	TEMPUS 1	•	5/2		•		A17 / R17 ^{v2}
INVENSYS	TEMPUS 2	•	7		•		A17 / R17 ^{v2}
INVENSYS	LP111	•	1		•		A17 / R17 ^{v2}
INVENSYS	LP711	•	7		•		A17 / R17 ^{v2}
INVENSYS	LP111 Si	•	1		•	•	A17 / R17 ^{v2}
INVENSYS	LP711 Si	•	7		•	•	A17 / R17 ^{v2}
INVENSYS	SW.MASTER 3000	•	1	•			A17 / R17 ^{v2}
INVENSYS	SM1	•	1	•			A17 / R17 ^{v2}
POTTERTON	EP4000	•	1		•		A17 / R17 ^{v2}
POTTERTON	EP4002	•	5/2		•		A17 / R17 ^{v2}
POTTERTON	EP5002	•	7		•		A17 / R17 ^{v2}
POTTERTON	MYSON MEP1C	•			•		A17 / R17 ^{v2}
SIEMENS	RWB30E	•	1	•			A17 / R17 ^{v2}
SIEMENS	RWB27	•	7		•		A17 / R17 ^{v2}
SIEMENS	RWB7	•	7		•		A17 / R17 ^{v2}
SUNVIC	SELECT 107	•	7		•		A17 / R17 ^{v2}
SUNVIC	SIMPLEX 100	•	1		•	•	A17 / R17 ^{v2}



A17



A27-HW



R17^{v2}



R27^{v2}

PROGRAMMERS

SUPPLIER	PRODUCT	MINI PROG	FULL PROG	DAYS	MECH	ELEC	SERVICE TIMER	EPH REPLACEMENT
DANFOSS	GP102	•		1	•			A27-HW / R27 ^{v2}
DANFOSS	GP102E5	•		5/2		•		A27-HW / R27 ^{v2}
DANFOSS	GP102E7	•		7		•		A27-HW / R27 ^{v2}
DANFOSS	CP715		•	7		•		A27-HW / R27 ^{v2}
DANFOSS	FP715		•	7		•		A27-HW / R27 ^{v2}
DANFOSS	CP715 Si		•	7		•	•	A27-HW / R27 ^{v2}
DANFOSS	FP715 Si		•	7		•	•	A27-HW / R27 ^{v2}
DANFOSS	MK3 3060		•	1	•			A27-HW / R27 ^{v2}
DANFOSS	MK3 4033		•	1	•			A27-HW / R27 ^{v2}
DANFOSS	FP975		•	7		•		A27-HW / R27 ^{v2}
DANFOSS	SET 2E	•		1		•		A27-HW / R27 ^{v2}
DANFOSS	SET 3E		•	1		•		A27-HW / R27 ^{v2}
DANFOSS	SET 3M		•	1	•			A27-HW / R27 ^{v2}
EPH	A27-HW		•	1-5/2-7		•	•	A27-HW / R27 ^{v2}
EPH	R27 ^{v2}		•	1-5/2-7		•	•	A27-HW / R27 ^{v2}
HONEYWELL	ST6200A1009	•		1		•		A27-HW / R27 ^{v2}
HONEYWELL	ST6300A1007		•			•		A27-HW / R27 ^{v2}
HONEYWELL	ST6300A1015		•	1		•		A27-HW / R27 ^{v2}
HONEYWELL	ST6400A1005		•	1		•		A27-HW / R27 ^{v2}
HONEYWELL	ST6400C1003		•	7		•		A27-HW / R27 ^{v2}
HONEYWELL	ST6400C1052		•	7		•		A27-HW / R27 ^{v2}
HONEYWELL	ST6400S1004		•	1		•	•	A27-HW / R27 ^{v2}
HONEYWELL	ST699B1002		•	1		•		A27-HW / R27 ^{v2}
HONEYWELL	ST799A1003		•	7		•		A27-HW / R27 ^{v2}
HONEYWELL	ST9400A1002		•	1		•		A27-HW / R27 ^{v2}
HONEYWELL	ST9400C1000		•	7		•		A27-HW / R27 ^{v2}
HONEYWELL	ST9400S1001		•	1		•	•	A27-HW / R27 ^{v2}
HONEYWELL	ST9500C1015		•	7		•		A27-HW / R27 ^{v2}
HORSTMANN	425 DIADEM		•	1	•			A27-HW / R27 ^{v2}
HORSTMANN	425 TIARA		•	1	•			A27-HW / R27 ^{v2}
HORSTMANN	H27Z		2	7		•		A27-HW / R27 ^{v2}
HORSTMANN	H21		•	1		•		A27-HW / R27 ^{v2}
HORSTMANN	H27		•	7		•		A27-HW / R27 ^{v2}
HORSTMANN	H21XL		•	1		•		A27-HW / R27 ^{v2}
HORSTMANN	H27XL		•	7		•		A27-HW / R27 ^{v2}
HORSTMANN	C21		•	1		•	•	A27-HW / R27 ^{v2}
HORSTMANN	C27		•	7		•	•	A27-HW / R27 ^{v2}
INVENSYS	TEMPUS 6		•	5/2		•		A27-HW / R27 ^{v2}
INVENSYS	TEMPUS 7		•	7		•		A27-HW / R27 ^{v2}
INVENSYS	LP112		•	1		•		A27-HW / R27 ^{v2}
INVENSYS	LP241		•	1		•		A27-HW / R27 ^{v2}
INVENSYS	LP522		•	5/2		•		A27-HW / R27 ^{v2}
INVENSYS	LP722		•	7		•		A27-HW / R27 ^{v2}
INVENSYS	LP112 Si		•	1		•	•	A27-HW / R27 ^{v2}
INVENSYS	LP241 Si		•	1		•	•	A27-HW / R27 ^{v2}
INVENSYS	LP522 Si		•	5/2		•	•	A27-HW / R27 ^{v2}
INVENSYS	LP722 Si		•	7		•	•	A27-HW / R27 ^{v2}
INVENSYS	SW.MASTER 400	•		1	•			A27-HW / R27 ^{v2}
INVENSYS	SW.MASTER 600		•	1	•			A27-HW / R27 ^{v2}
INVENSYS	SW.MASTER 805		•		•			A27-HW / R27 ^{v2}
INVENSYS	SM2		•	1	•			A27-HW / R27 ^{v2}
POTTERTON	EP6002		•	1		•		A27-HW / R27 ^{v2}
POTTERTON	EP2000		•	7		•		A27-HW / R27 ^{v2}
POTTERTON	EP2002		•	1		•		A27-HW / R27 ^{v2}
POTTERTON	EP3002		•	5/2		•		A27-HW / R27 ^{v2}
POTTERTON	MYSON MEP2C		•	7		•		A27-HW / R27 ^{v2}
SIEMENS	RWB2E		•		•			A27-HW / R27 ^{v2}
SIEMENS	RWB29		•	1		•		A27-HW / R27 ^{v2}
SIEMENS	RWB9		•	7		•		A27-HW / R27 ^{v2}
SUNVIC	SELECT 207		•	7		•		A27-HW / R27 ^{v2}
SUNVIC	SIMPLEX 200		•	1		•	•	A27-HW / R27 ^{v2}

Programmable Room Thermostats

Recessed Programmable Thermostat - Mains powered



ErP Class IV = 2%
Compatible with 1 External Temp Sensor
Accessories: NTC10K-Ferrule & NTC Housing



PRODUCT CODE	POWER SUPPLY	CONTACT RATING	TEMP RANGE
RDTP	230Vac ± 10%	10(3)A 230Vac	5 ... 35°C

SWITCH OUTPUT	MOUNTING TYPE	SWITCHING DIFFERENTIAL	FEATURES
SPDT Volt Free	Recessed	0... 1.0°C	Optimum Start / TPI

Surface Mounted Programmable Thermostat - Mains powered



ErP Class IV = 2%



PRODUCT CODE	POWER SUPPLY	CONTACT RATING	TEMP RANGE
CDTP2	230Vac ± 10%	7(3)A 230Vac	5 ... 35°C

SWITCH OUTPUT	MOUNTING TYPE	SWITCHING DIFFERENTIAL	FEATURES
SPDT Volt Free	Surface	0 ... 1.0°C	Optimum Start / TPI



ErP Class V= 3%
Industry Standard Backplate



PRODUCT CODE	POWER SUPPLY	CONTACT RATING	TEMP RANGE
CP4M	230Vac ± 10%	7A 230Vac	5 ... 35°C

SWITCH OUTPUT	MOUNTING TYPE	SWITCHING DIFFERENTIAL	FEATURES
SPDT Volt Free	Surface	0 ... 1.0°C	Optimum Start / TPI

Surface Mounted Programmable Thermostat - Battery powered



ErP Class IV = 2%



PRODUCT CODE	POWER SUPPLY	CONTACT RATING	TEMP RANGE
CRTP2	2 x AA Batteries (Incl)	8(3)A 230Vac	5 ... 35°C

SWITCH OUTPUT	MOUNTING TYPE	SWITCHING DIFFERENTIAL	FEATURES
SPDT Volt Free	Surface	0 ... 1.0°C	Optimum Start / TPI



ErP Class V= 3%



PRODUCT CODE	POWER SUPPLY	CONTACT RATING	TEMP RANGE
CP4B	2 x AA Batteries (Incl)	8(3)A 230Vac	5 ... 35°C

SWITCH OUTPUT	MOUNTING TYPE	SWITCHING DIFFERENTIAL	FEATURES
SPDT Volt Free	Surface	0 ... 1.0°C	Optimum Start / TPI

Non-Programmable Room Thermostats

Dial Thermostat - Mains powered



ErP Class IV = 2%



PRODUCT CODE	POWER SUPPLY	CONTACT RATING	TEMP RANGE
HRT	2 x AA Batteries (Incl)	8(3)A 230Vac	5 ... 35°C
SWITCH OUTPUT	MOUNTING TYPE	SWITCHING DIFFERENTIAL	FEATURES
SPDT Volt Free	Surface	0 ... 1.0°C	Delay Start / TPI

Dial Thermostat with Setback Function - Mains powered



ErP Class IV = 2%



PRODUCT CODE	POWER SUPPLY	CONTACT RATING	TEMP RANGE
HDT	230Vac ± 10%	7A 230Vac	5 ... 35°C
SWITCH OUTPUT	MOUNTING TYPE	SWITCHING DIFFERENTIAL	FEATURES
SPST Volt Free	Surface	0 ... 1.0°C	Delay Start / TPI / Setback Function

Recessed Thermostat with Setback Function - Mains powered



ErP Class IV = 2%



PRODUCT CODE	POWER SUPPLY	CONTACT RATING	TEMP RANGE
RDT	230Vac ± 10%	10(3)A 230Vac	5 ... 35°C
SWITCH OUTPUT	MOUNTING TYPE	SWITCHING DIFFERENTIAL	FEATURES
SPDT Volt Free	Recessed	0 ... 1.0°C	Delay Start / TPI / Setback Function

Surface Mounted Thermostat - Mains powered



ErP Class IV = 2%



PRODUCT CODE	POWER SUPPLY	CONTACT RATING	TEMP RANGE
CDT2	230Vac ± 10%	7(3)A 230Vac	5-35°C
CDT2-24	24Vac	5(1)A 24Vac	5-35°C
SWITCH OUTPUT	MOUNTING TYPE	SWITCHING DIFFERENTIAL	FEATURES
SPDT Volt Free	Surface	0 ... 1.0°C	Delay Start / TPI

Surface Mounted Thermostat - Battery powered



ErP Class IV = 2%



PRODUCT CODE	POWER SUPPLY	CONTACT RATING	TEMP RANGE
CRT2	2 x AA Batteries (Incl.)	8(3)A 230Vac	5-35°C
SWITCH OUTPUT	MOUNTING TYPE	SWITCHING DIFFERENTIAL	FEATURES
SPDT Volt Free	Surface	0 ... 1.0°C	Delay Start / TPI

Mechanical Room Thermostats

Thermostat



ErP Class I - 1%
*CM2 Combi Stat



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

SWITCH OUTPUT	TEMPERATURE RANGE	SWITCHING DIFFERENTIAL	IP RATING
SPDT	5 ... 35°C Limitable	±1°C	IP20

Frost Thermostat



ErP Class I - 1%



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

SWITCH OUTPUT	TEMPERATURE RANGE	SWITCHING DIFFERENTIAL	IP RATING
SPDT	-5 ... 15°C Limitable	±1°C	IP20

Tamperproof Thermostat



ErP Class I - 1%



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

SWITCH OUTPUT	TEMPERATURE RANGE	SWITCHING DIFFERENTIAL	IP RATING
SPDT	5 ... 35°C	±1°C	IP20

Thermostat with On/Off Switch



ErP Class I - 1%



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

SWITCH OUTPUT	TEMPERATURE RANGE	SWITCHING DIFFERENTIAL	IP RATING
SPDT	10 ... 35°C Limitable	±1°C	IP20

Mechanical Pipe / Cylinder / Frost Thermostats

Pipe / Cylinder Thermostat



PRODUCT CODE	SETPOINT ADJUSTMENT	TEMP RANGE	IP RATING
WRP	External	0 ... 90 °C	IP20
WRP-TP	Internal (Tamperproof)	0 ... 90 °C	IP20
SWITCH OUTPUT	CONTACT RATING	SWITCHING DIFFERENTIAL	SENSOR TYPE
SPDT Volt Free	16(4)A 230Vac	±5 °C	Gas filled

Immersion Thermostat



PRODUCT CODE	SETPOINT ADJUSTMENT	TEMP RANGE	IP RATING
WRP-IM	External	0 ... 90 °C	IP20
WRP-IM-TP	Internal (Tamperproof)	0 ... 90 °C	IP20
SWITCH OUTPUT	CONTACT RATING	SWITCHING DIFFERENTIAL	SENSOR TYPE
SPDT Volt Free	16(4)A 230Vac	±5 °C	Gas filled

Dual Thermostat with Manual Reset



PRODUCT CODE	SETPOINT ADJUSTMENT	TEMP RANGE	HIGH LIMIT
DBS	External	0 ... 90 °C	110 °C
SWITCH OUTPUT	CONTACT RATING	SWITCHING DIFFERENTIAL	SENSOR TYPE
SPDT Volt Free	16(4)A 230Vac	6±2 °C	Liquid filled

Outside Frost Thermostat



PRODUCT CODE	SETPOINT ADJUSTMENT	TEMP RANGE	IP RATING
C10C2RIYS1	Internal	-35 °C ... 20 °C	IP65
SWITCH OUTPUT	CONTACT RATING	SWITCHING DIFFERENTIAL	SENSOR TYPE
SPDT Volt Free	16(4)A 230Vac	±2 °C	Liquid filled

Frost Thermostat Controller



PRODUCT CODE	DESCRIPTION	CONTACT RATING	SWITCH OUTPUT
EPH-FSC	Frost stat controller	8A 230Vac	SPDT Volt Free

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

Control Pack Coding System

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	-	3 = 3	3 = V228P	3 = 3	3 = CM3	3 = WRP-IM	3 = WCA
CR	2P = R27	-	4 = 4	4 = V222FP	4 = 4	4 = CDT2	4 = WP-IM-TP	
CR	3P = R37	-		5 = V228FP		5 = CMT	5 = WRP-TP	
CR	4P = R47	-		6 = B322PF		6 = CRT2	6 = DBS	
				7 = B328PF		7 = CDTP2	7 = EDBS	
				8 = DS222P		8 = CRTP2		
				9 = V222PC		9 = CP4		
				A = DS228P		A = CP4M		
						B = CP4B		
						C = HRT		
						D = HDT		
						E = RDT		
						F = CP4v2		
						G = CP4D		

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-RFv2	-	1 = 1	1 = V221P	1 = 1	1 = HDT-RF	1 = RFC	1 = WC2
CRF	2P = R27-RFv2	-	2 = 2	2 = V222P	2 = 2	2 = RFR	2 = WRP	2 = WC3
CRF	3P = R37-RFv2	-	3 = 3	3 = V228P	3 = 3	3 = CM2	3 = WRP-IM	3 = WCA
CRF	4P = R47-RFv2	-	4 = 4	4 = V222FP	4 = 4	4 = CM3	4 = WP-IM-TP	
				5 = V228FP		5 = RFRB	5 = WRP-TP	
				6 = B322PF		6 = CDT2-RF	6 = DBS	
				7 = B328PF		7 = CRT2-RF	7 = EDBS	
				8 = DS222P		8 = RDT-RF	8 = CP4-HW-OT	
				9 = V222PC		9 = CP4	9 = CDC2	
				A = DS228P		A = CP4 ^{v2}		
						B = CP4D		
						C = RFRB-TW		
						D = RFRB-TB		
						E = RDT-RF-TW		
						F = RDT-RF-TB		



Scan to design your Control Pack

Hardwired Control Packs

Y Plan Control Pack



BOX QTY
6



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 Control Pack



BOX QTY
6



PRODUCT CODE	PROGRAMMER	MOTORISED VALVES	THERMOSTATS	WIRING CENTRE
CR1P-212101	R17 ^{V2}	V221P x 2	RDTP x 2	WC2
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 Control Pack



BOX QTY
6



PRODUCT CODE	PROGRAMMER	MOTORISED VALVES	THERMOSTATS		WIRING CENTRE
CA221P	A27-HW	V221P x 2	CM2	WRP	WC2
CA222P	A27-HW	V222P x 2	CM2	WRP	WC2
CA228P	A27-HW	V228P x 2	CM2	WRP	WC2

PRODUCT CODE	PROGRAMMER	MOTORISED VALVES	THERMOSTATS		WIRING CENTRE
CR221P	R27 ^{V2}	V221P x 2	CM2	WRP	WC2
CR222P	R27 ^{V2}	V222P x 2	CM2	WRP	WC2
CR228P	R27 ^{V2}	V228P x 2	CM2	WRP	WC2

2 Zone Control Pack



BOX QTY
6



PRODUCT CODE	PROGRAMMER	MOTORISED VALVES	THERMOSTATS		WIRING CENTRE
CR2P-211301	R27 ^{V2}	V221P x 2	CM3	-	WC2
CR2P-211311	R27 ^{V2}	V221P x 2	CM3	WRP	WC2
CR2P-211341	R27 ^{V2}	V221P x 2	CM3	WRP-IM-TP	WC2
CR2P-211351	R27 ^{V2}	V221P 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

Hardwired Control Packs Continued

S Plan Unvented Control Pack



PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTAT	WIRING CENTRE
CA221PU	A27-HW	V221P	CM2	WC2
CA222PU	A27-HW	V222P	CM2	WC2
CA228PU	A27-HW	V228P	CM2	WC2

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTAT	WIRING CENTRE
CR221PU	R27 ^{V2}	V221P	CM2	WC2
CR222PU	R27 ^{V2}	V222P	CM2	WC2
CR228PU	R27 ^{V2}	V228P	CM2	WC2

2 Zone Combi Zoning Control Pack with Programmable Thermostats



Pictures for reference only, thermostats will differ in packs.



Pictures for reference only, thermostats will differ in packs.



PRODUCT CODE	PROGRAMMER	MOTORISED VALVES	THERMOSTATS	WIRING CENTRE
C00P-210011	-	V221P x 2	WRP	WC2
C00P-212101	-	V221P x 2	RDTP x 2	WC2
C00P-212701	-	V221P x 2	CDTP2 x 2	WC2
C00P-212801	-	V221P x 2	CRTP2 x 2	WC2
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

PRODUCT CODE	PROGRAMMER	MOTORISED VALVES	THERMOSTATS	WIRING CENTRE
C00P-212901	-	V221P x 2	CP4 x 2	WC2
C00P-212A01	-	V221P x 2	CP4M x 2	WC2
C00P-212A02	-	V221P x 2	CP4M x 2	WC3
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

2 Zone Combi Zoning Control Pack with Programmer



PRODUCT CODE	PROGRAMMER	MOTORISED VALVES	THERMOSTATS	WIRING CENTRE
CR2P-212200	R27 ^{V2}	V221P x 2	CM2 x 2	-
CR2P-212201	R27 ^{V2}	V221P x 2	CM2 x 2	WC2
CR2P-212301	R27 ^{V2}	V221P x 2	CM2 x 2	WC2
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



3 Zone Control Pack



PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTATS		WIRING CENTRE
CR3P	R37 ^{V2}	V221P x 3	CM2 x 2	WRP	WC2
CR322P	R37 ^{V2}	V222P x 3	CM2 x 2	WRP	WC2
CR328P	R37 ^{V2}	V228P x 3	CM2 x 2	WRP	WC2
CR3P-382211	R37 ^{V2}	DS222P x 3	CM2 X 2	WRP	WC2

3 Zone Unvented Control Pack



PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTATS	WIRING CENTRE
CR3PU	R37 ^{V2}	V221P x 2	CM2 x 2	WC2
CR322PU	R37 ^{V2}	V222P x 2	CM2 x 2	WC2
CR3P-222301	R37 ^{V2}	V222P x 3	CM2 x 2	WC2
CR3P-282301	R37 ^{V2}	DS22P x 2	CM3 x 2	WC2
CR3P-282401	R37 ^{V2}	DS222P x 2	CDT2 x 2	WC2
CR328PU	R37 ^{V2}	V228P x 2	CM2 x 2	WC2

3 Zone Combi Zoning Control Pack



PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTATS	WIRING CENTRE
COOP-313A01	-	V221P x 3	CP4M x 3	WC2
COOP-323A01	-	V222P x 3	CP4M x 3	WC2
COOP-313101	-	V221P x 3	RDTP x 3	WC2
COOP-323101	-	V222P x 3	RDTP x 3	WC2
COOP-313701	-	V221P x 3	CDTP2 x 3	WC2
COOP-323701	-	V222P x 3	CDTP2 x 3	WC2
COOP-313801	-	V221P x 3	CRTP2 x 3	WC2
COOP-323801	-	V222P x 3	CRTP2 x 3	WC2
CR3P-313201	R37 ^{V2}	V221P x 3	CM2 x 3	WC2
CR3P-313301	R37 ^{V2}	V221P x 3	CM3 x 3	WC2
CR3P-322301	R37 ^{V2}	V222P x 3	CM3 x 2	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.



Hardwired Control Packs & Wiring Centres

4 Zone Control Pack



PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTATS		WIRING CENTRE
CR4P	R47 ^{V2}	V221P x 4	CM2 x 3	WRP	WC2
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 Control Pack



PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTATS		WIRING CENTRE
CR4PU	R47 ^{V2}	V221P x 3	CM2 x 3		WC2
CR422PU	R47 ^{V2}	V222P x 3	CM2 x 3		WC2
CR428PU	R47 ^{V2}	V228P x 3	CM2 x 3		WC2

Wiring Centre



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

Wiring Centre with PCB



PRODUCT CODE	INTERNALLY MOUNTED	APPLICATION
WCA	PCB c/w Screw Terminals	S-Plan or 3 Zone System



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	

Radiator Controls Continued

TRV Twin Pack - Angled for 16mm Multi Layer Pipe



PRODUCT CODE	CONNECTION TYPE	BI DIRECTIONAL	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 DIRECTIONAL	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 DIRECTIONAL
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 DIRECTIONAL
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 DIRECTIONAL	DESCRIPTION
LSV10	10mm compression	Yes	Lockshield valve
LSV15	15mm compression	Yes	Lockshield valve
LSVMLP	16mm multilayer pipe	Yes	Lockshield valve
TEMP RANGE		MAX. DIFFERENTIAL PRESSURE	
7 ... 28°C		0.6 bar	

Drain Off Valve



2 YEARS WARRANTY
BOX QTY 200

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

Lockshield Drain Off Valve



2 YEARS WARRANTY
BOX QTY 50

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

Push Fit Elbow



2 YEARS WARRANTY
BOX QTY 100

PRODUCT CODE	DESCRIPTION	PACK QUANTITY
PFE10	15mm x10mm Push fit elbow	2 pieces
PFE15	15mm x15mm Push fit elbow	2 pieces

TRV Body - 15mm



2 YEARS WARRANTY
BOX QTY 60

PRODUCT CODE	CONNECTION TYPE	BI DIRECTIONAL	MAX. FLOW TEMP.
TRVB15	15mm Compression	Yes	90°C
NOMINAL FLOW RATE	MAX. DIFFERENTIAL PRESSURE	MAX. STATIC PRESSURE	CONNECTION
190 l/h	0.6 bar	10 bar	M30 x 1.5

Thermostatic Heads



2 YEARS WARRANTY
BOX QTY 50

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	

Reduced Mobility Accessory



BOX QTY 100

PRODUCT CODE	DESCRIPTION
RMA	Reduced Mobility Accessory for EPH TRVs

Thermostatic Mixing Valves

Thermostatic Mixing Valves



Complete with 4-in-1 angle inlet connectors incorporating stainless steel mesh strainers, non return valves, 1/4" BSP pressure tapping point and 1/4-turn lever ball 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

ACCESSORIES CODE	DESCRIPTION	COLOUR
IV15	15mm Angled Isolation Valve	Red and Blue
IV22	22mm Angled Isolation Valve	Red and Blue

PRODUCT CODE	VALVE SIZE	FLOW RATE	MAX STATIC PRESSURE	APPLICATION
TMV3-Combi-015	15mm	1.5Kvs	10 Bar	Point of Use
TMV3-Combi-022	22mm	1.5Kvs	10 Bar	Point of Use

SETTING RANGE	MEDIA TEMPERATURE	TEMPERATURE STABILITY	CONNECTION
32 ... 49°C	Max. 95°C	±2°C	Compression

Radiator Circuit, Closed Circuit

PRODUCT CODE	VALVE SIZE	FLOW RATE	SETTING RANGE	APPLICATION
TMV-31700600	1 1/4" BSP	4.8Kvs	45 ... 65°C	Radiator Circuit

Underfloor Heating, Closed Circuit

PRODUCT CODE	VALVE SIZE	FLOW RATE	SETTING RANGE	APPLICATION
TMV-31100500	3/4" BSP	1.5Kvs	20 ... 43°C	Underfloor Heating
TMV-31702100	1" BSP	4.5Kvs	20 ... 55°C	Underfloor Heating
TMV-31700500	1 1/4" BSP	4.8Kvs	20 ... 43°C	Underfloor Heating

In Line, Scald Safe

PRODUCT CODE	VALVE SIZE	FLOW RATE	SETTING RANGE	APPLICATION
TMV-31102900	1/2" BSP	1.2Kvs	35 ... 60°C	Potable Water In line
TMV-31100600	3/4" BSP	1.5Kvs	35 ... 60°C	Potable Water In line
TMV-31101000	1" BSP	1.6Kvs	35 ... 60°C	Potable Water In line
TMV-31620200	1" BSP	3.2Kvs	45 ... 65°C	Potable Water In line
TMV-31720100*	1" BSP	3.2Kvs	45 ... 65°C	Potable Water In line

* for Potable water, In line and Solar (Solar rated Max. 120°C)



Commercial Controls



Load Valves



PRODUCT CODE	CONNECTION	FLOW RATE	OPENING TEMPERATURE °C
VTC-51020100	1" BSP	9 Kvs	50
VTC-51020200	1" BSP	9 Kvs	55
VTC-51020300	1" BSP	9 Kvs	60
VTC-51020400	1" BSP	9 Kvs	70
VTC-51020700	1 1/4" BSP	14 Kvs	55
VTC-51020900	1 1/4" BSP	14 Kvs	70
MAX TEMPERATURE	MAX DIFF PRESSURE	LEAKAGE RATE A-AB	LEAKAGE RATE B-AB
110 °C	100kPA	Max 1% of Kvs	Max 3% of Kvs

Diverter Valves



PRODUCT CODE	CONNECTION	FLOW RATE	MAX. TEMP °C
VZD263-43080800	28mm Compression	6 Kvs	95
VZD162-43080400	1" Male	6 Kvs	95
MAX TEMPERATURE	MAX DIFF PRESSURE	LEAKAGE RATE A-AB	LEAKAGE RATE B-AB
110 °C	100kPA	Max 1% of Kvs	Max 3% of Kvs

Mixing Valves, Actuators & Controllers

Rotary 3 Port Brass Mixing Valves



4 Port Versions Also Available

PRODUCT CODE	VALVE SIZE	FLOW RATE	CONNECTION TYPE
VRG015	DN15	4.0 Kvs	1/2" Female BSP
VRG020	DN20	6.3 Kvs	3/4" Female BSP
VRG025	DN25	10 Kvs	1" Female BSP
VRG032	DN32	16 Kvs	1 1/4" Female BSP
VRG040	DN40	25 Kvs	1 1/2" Female BSP
VRG050	DN50	40 Kvs	2" Female BSP
ACCESSORIES CODE	DESCRIPTION	FOR PRODUCT CODE	
17006900	Repair Kit	VRG015 (11600600) VRG020 (11600900)	
17006910	Repair Kit	VRG025 (11601100)	
17006920	Repair Kit	VRG032 (11601200) VRG040 (11603400)	
17006950	Repair Kit	VRG050 (11603600)	
17006930	Repair Kit	VRG040 (old model 11601300) VRG050 (old model 11601400)	
TEMPERATURE RANGE	LEAKAGE RATE	PN RATING	MAX PRESSURE DIFFERENCE
-10...110°C	Mixing < 0.05% Diverting < 0.02%	PN10	Mixing 1 Bar Diverting 2 Bar



Rotary 3 Port Cast Iron Mixing Valves



Suitable for Heating / Cooling
4 Port Versions Also Available

PRODUCT CODE	VALVE SIZE	FLOW RATE	CONNECTION TYPE
3F50	DN50	66 Kvs	Flanged
3F65	DN65	100 Kvs	Flanged
3F80	DN80	150 Kvs	Flanged
3F100	DN100	225 Kvs	Flanged
3F125	DN125	310 Kvs	Flanged
3F150	DN150	420 Kvs	Flanged
TEMPERATURE RANGE	LEAKAGE RATE	PN RATING	MAX PRESSURE DIFFERENCE
-10...110°C	1.5%	PN6	DN20...50, 0.5 bar DN65...150, 0.3 bar



Internal Seals for Rotary Cast Iron Valves

PRODUCT CODE	FOR ESBE AND SAUTER VALVES
17000300	Seals only for DN20-65 Cast Iron Valves
17000400	Seals only for DN80-150 Cast Iron Valves

Internal Kits for Rotary Cast Iron Valves



PRODUCT CODE	FOR ESBE VALVE	FOR SAUTER VALVE
17000800-K1C	3G20 - 3G40	MH32R020-040
17001100-K2A-S	3G50	MH32R050F200
17001400-K3A-S	3F65	MH32F065F200



Actuator – Rotary 3 Port Brass Mixing Valves



SPDT=Single Pole Double Throw

* 0(2)-10V / 0(4)-20mA Control Sign

** AUX = premounted auxiliary switch



PRODUCT CODE	POWER SUPPLY	RUN TIME	ACTUATOR TYPE
ARA639	24V=/~ *	15 / 30 / 60 / 120s	Modulating
ARA645	230V~	30s	2-point SPDT
ARA651	230V~	60s	3-point SPDT
ARA652	230V~	60s	3-point SPDT & AUX**
ARA653	24V~	60s	3-point SPDT
ARA654	24V~	60s	3-point SPDT & AUX**
ARA655	230V~	60s	2-point SPDT
ARA659	24V=/~ *	45 / 120s	Modulating
ARA661	230V	120s	3-point SPDT
ACCESSORIES CODE	DESCRIPTION		
16000500	Assembly for ARA to VRG valve (Normally included with ARA actuator)		
17050600	Knob for ARA actuator		
TORQUE	IP RATING	AMBIENT TEMPERATURE	
6Nm	IP41	-5 ... 55°C	

Actuator – Rotary 3 Port Cast Iron Mixing Valves



Mounts Directly to 3F___ Cast Iron Valves

* 0(2)-10V / 0(4)-20mA Control Signal



PRODUCT CODE	POWER SUPPLY	RUN TIME	ACTUATOR TYPE
93P	24V=/~ *	60s	Modulating
95	230V~	60s	3-point SPDT
ACCESSORIES CODE	DESCRIPTION		
16053300	Series 90 Linkage kit for VRG valves		
TORQUE	IP RATING	AMBIENT TEMPERATURE	
15Nm	IP 54	-15 ... 55°C	

Motorised Temperature Controllers



Two parts: actuator unit and flow sensor



PRODUCT CODE	POWER SUPPLY	RUN TIME	TORQUE	PLUG INCLUDED
CRA125	230V / 24V=/~	120s	15Nm	UK 3PIN
CRA215	230V ~	30s	6Nm	UK 3PIN
TEMPERATURE RANGE	IP RATING	AMBIENT TEMPERATURE		
5 ... 95°C	IP 54	5 ... 55°C		

Weather Compensator Actuator



Three parts: actuator unit, outdoor sensor and flow sensor

*CRC 3PIN Plug accessory available



PRODUCT CODE	POWER SUPPLY	RUN TIME	TORQUE	PLUG INCLUDED
CRC211	230V~	30s	6Nm	EU 2PIN*
CRC125	230V / 24V=/~	120s	15Nm	UK 3PIN
TEMPERATURE RANGE	IP RATING	AMBIENT TEMPERATURE		
5 ... 95°C	IP41	-5 ... 55°C		

Solenoid Valves

Direct Acting – Normally Closed



2 Year Warranty
Connection: Female BSP
Suitable for: Water / Oil / Inert Gas

PRODUCT CODE	VALVE SIZE	FLOW RATE	MAX DIFFERENTIAL	MAX. PRESSURE
DANC15	DN15	0.4 Kvs	6 Bar	PN20
DANC20	DN20	0.9Kvs	3 Bar	PN20
TEMPERATURE RANGE	IP RATING	MINIMUM DIFFERENTIAL PRESSURE		
-10...140°C	IP65	0.1Bar		

Servo Assisted – Normally Closed



2 Year Warranty
Connection: Female BSP
Suitable for: Water / Oil / Inert Gas

PRODUCT CODE	VALVE SIZE	FLOW RATE	MAX DIFFERENTIAL	MAX. PRESSURE
SANC10	DN10	2.0 Kvs	20 Bar	PN25
SANC15	DN15	2.5 Kvs	20 Bar	PN25
SANC20	DN20	6.0 Kvs	20 Bar	PN25
SANC25	DN25	9.0 Kvs	20 Bar	PN25
SANC32	DN32	22.0 Kvs	10 Bar	PN16
SANC40	DN40	25.0 Kvs	10 Bar	PN16
SANC50	DN50	45.0 Kvs	10 Bar	PN16
TEMPERATURE RANGE	IP RATING	MINIMUM DIFFERENTIAL PRESSURE		
-10...90°C	IP65	0.1Bar		

Servo Assisted – Normally Open



2 Year Warranty
Connection: Female BSP
Suitable for: Water / Oil / Inert Gas

PRODUCT CODE	VALVE SIZE	FLOW RATE	MAX DIFFERENTIAL	MAX. PRESSURE
SANO15	DN15	3.0 Kvs	20 Bar	PN25
SANO20	DN20	8.4 Kvs	20 Bar	PN25
SANO25	DN25	9.6 Kvs	20 Bar	PN25
SANO32	DN32	25.2 Kvs	10 Bar	PN16
SANO40	DN40	30.0 Kvs	10 Bar	PN16
SANO50	DN50	37.2 Kvs	10 Bar	PN16
TEMPERATURE RANGE	IP RATING	MINIMUM DIFFERENTIAL PRESSURE		
-10...90°C	IP65	0.1Bar		

Coils



2 Year Warranty
Connectors for coils sold separately

PRODUCT CODE	POWER SUPPLY	ACTIVE POWER	FOR USE WITH
C12AC	12Vac	9W	DANC / SANC
C12DC	12Vdc	14W	DANC / SANC
C24AC	24Vac	9W	DANC / SANC
C24DC	24Vdc	14W	DANC / SANC
C110AC	110...115Vac	9W	DANC / SANC
C230AC	230Vac	14W	DANC / SANC
C24DC	24Vdc	14W	DANC / SANC
C24ACNO	24Vac	9W	SANO
C230ACNO	230Vac	14W	SANO

Connector for Coils



2 Year Warranty

ACCESSORIES CODE	DESCRIPTION
CONN	Connector for coils

Float Switches - Liquid



PRODUCT CODE	CABLE LENGTH	RESISTIVE LOAD	INDUCTIVE LOAD
FLOAT-3	3 m	10A	4A
FLOAT-10	10 m	10A	8A
CABLE	RATED VOLTAGE	MAX WORKING PRESSURE	
3 Core SPDT	250Vac	10 Bar	

Flow Switches - Liquid



PRODUCT CODE	PADDLE SIZES	CASING	INDUCTIVE LOAD
FF82	1" - 8"	Plastic	6A
IP RATING	CONNECTION	SWITCH OUTPUT	
IP54	1"	SPDT	



Immersion Thermostats



PRODUCT CODE	RANGE	CAPILLARY LENGTH	SWITCHING DIFFERENCE
TUC101F003	-10...50°C	1600mm	4°C
TUC105F001	15...95°C	700mm	4°C
TUC307F001*	50...130°C	700mm	20°C

* Manual Reset Thermostat

Accessories



ACCESSORIES CODE	DESCRIPTION
0300360010	Pipe clamp, suitable for pipework from 1/2" - 3"
0368139000	Support coil for sensor
0364432001	Bracket for wall / ducting mounting
0391011100	Brass immersion pocket, 100mm
0391022100	Stainless steel immersion pocket, 100mm

Flow Switches - Air



PRODUCT CODE	SWITCHING DIFFERENCE	SWITCHING RANGE	MAX LOAD
DDL103F001	Approx 0.2mbar	0.2...3 mbar	5 (0.8)A 230V~
DDL105F001	Approx 0.3mbar	0.5...5 mbar	5 (0.8)A 230V~
DDL110F001	Approx 0.5mbar	1...10 mbar	5 (0.8)A 230V~
IP RATING	MAX PRESSURE	AMBIENT TEMPERATURE	
IP54	50mbar	-30 - 85 °C	



Unit Valves & Actuators

2 Port Unit Valves, FxF, EPH



PRODUCT CODE	VALVE SIZE	FLOW RATE		
VUA015F200	DN15	1.7 Kvs		
VUA020F200	DN20	2.6 Kvs		
VUA025F200	DN25	4.9 Kvs		
TEMPERATURE RANGE	ACTUATOR CONNECTION	PN RATING	CONNECTION TYPE	
2...110°C	M30x1.5	PN16	Female BSP	

2 Port Unit Valves



PRODUCT CODE	VALVE SIZE	FLOW RATE		
VUL010F340	DN10	0.16 Kvs		
VUL010F330	DN10	0.4 Kvs		
VUL010F310	DN10	1 Kvs		
VUL010F300	DN10	1.6 Kvs		
VUL015F300	DN15	3.5 Kvs		
VUL020F300	DN20	4.5 Kvs		

3 Port Unit Valves



PRODUCT CODE	VALVE SIZE	FLOW RATE		
BUL010F330	DN10	0.4 Kvs		
BUL010F320	DN10	0.63 Kvs		
BUL010F310	DN10	1 Kvs		
BUL010F300	DN10	1.6 Kvs		
BUL015F310	DN15	2.5 Kvs		
BUL015F300	DN15	4 Kvs		
BUL020F300	DN20	5 Kvs		

4 Port Unit Valves



PRODUCT CODE	VALVE SIZE	FLOW RATE		
BUL010F430	DN10	0.4 Kvs		
BUL015F410	DN15	2.5 Kvs		
BUL015F400	DN15	4 Kvs		
BUL020F400	DN20	5 Kvs		
TEMPERATURE RANGE	ACTUATOR CONNECTION	PN RATING	CONNECTION TYPE	
2...120°C	M30x1.5	PN16	Male BSP	

Accessories

ACCESSORIES CODE	DESCRIPTION	FOR PRODUCT CODE
0378133010	1 Threaded sleeve, DN10	BUL010F3..
0378133015	1 Threaded sleeve, DN15	BUL015F3..
0378133020	1 Threaded sleeve, DN20	BUL020F300

Motor Driven Actuators



for VUA, VUL, & BUL Unit Valves

* 0(2)-10V / 0(4)-20mA Control Signal



PRODUCT CODE	POWER SUPPLY	RUN TIME	ACTUATOR TYPE	STROKE (MM)
AXM217F200	230V~	75s	3 Point	6.3
AXM217F202	24V=/~	75s	3 Point	6.3
AXM217SF402	24V=/~ *	60s	Modulating	3.2/4.3/5.5mm

AMBIENT TEMP.	VALVE CONNECTION	CONNECTION TYPE
0 ... 50°C	M30x1.5	Screwed

Thermal Actuators – Spring Return



for VUA, VUL, & BUL Unit Valves

* 0-10V Control Signal



PRODUCT CODE	POWER SUPPLY	RUN TIME	ACTUATOR TYPE	STROKE (MM)
AXT301F110	230V~	240s	Normally Closed	5.0mm
AXT301F112	24V~	240s	Normally Closed	5.0mm
AXS315F102	24V=/~ *	30s / mm	Normally Closed	6.5mm
AXS315F202	24V=/~ *	30s / mm	Normally Open	6.5mm

AMBIENT TEMP.	VALVE CONNECTION	CONNECTION TYPE
0 ... 60°C	M30x1.5	Bayonet Nut



for VUA, VUL, & BUL Unit Valves



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

Lift & Lay Valves & Actuators

2 Port Lift & Lay Valves c/w Unions



PRODUCT CODE	VALVE SIZE	FLOW RATE	CONNECTION	CHARACTERISTIC
VUN015F300	DN15	4 Kvs	1/2" Female	Linear
VUN020F300	DN20	6.3 Kvs	3/4" Female	Linear
VUN025F300	DN25	10 Kvs	1" Female	Linear
VUN032F300	DN32	16 Kvs	1 1/4" Female	Linear
VUN040F300	DN40	22 Kvs	1 1/2" Female	Linear
VUN050F200	DN50	40 Kvs	2" Female	Equal %

3 Port Lift & Lay Valves c/w Unions



PRODUCT CODE	VALVE SIZE	FLOW RATE	CONNECTION	CHARACTERISTIC
BUN015F300	DN15	4 Kvs	1/2" Female	Linear
BUN020F300	DN20	6.3 Kvs	3/4" Female	Linear
BUN025F300	DN25	10 Kvs	1" Female	Linear
BUN032F300	DN32	16 Kvs	1 1/4" Female	Linear
BUN040F300	DN40	22 Kvs	1 1/2" Female	Linear
BUN050F200	DN50	40 Kvs	2" Female	Equal %
ACCESSORIES CODE	DESCRIPTION			
0361951015	Union for BUN / VUN015			
0361951020	Union for BUN / VUN020			
0361951025	Union for BUN / VUN025			
0361951032	Union for BUN / VUN032			
0361951040	Union for BUN / VUN040			
0361951050	Union for BUN / VUN050			
0378368001	Stuffing box for BUN / VUN015 ... 050			
TEMP RANGE	LEAKAGE RATE	PN RATING	NOMINAL STROKE	
-15...150°C	≤0.02% of Kvs	PN16	8mm	

Actuators



- * 0-10V Control Signal
 ** 0-10V / 4-20mA Control Signal
 [1] Spring Return, Normally Closed
 [2] Spring Return, Normally Open



PRODUCT CODE	POWER SUPPLY	SPEED 5.5mm	ACTUATOR TYPE	PUSHING FORCE
AVM105F120	230V~	80s	2 / 3 Point	250N
AVM105F122	24V~	80s	2 / 3 Point	250N
AVM105SF132	24V=/~*	20/40/80s	Modulating or 2/3 Pt	250N
AVM115F120	230V~	80s	2 / 3 Point	500N
AVM115SF132	24V=/~*	40s / 80s	Modulating or 2/3 Pt	500N
AVF125SF132	24V~**	40s / 80s	Modulating or 2/3 Pt [1]	500N
IP RATING	AMBIENT TEMPERATURE		MAX STROKE	
IP54	-10 ... 55°C		8mm	

Accessories

ACCESSORIES CODE	DESCRIPTION	FOR PRODUCT CODE
0372273001	Siemens adapter VVG / VXG	AVM1.5
0372145001	Auxiliary Contact, single	AVM1.5

2 Port Ball Valves



PRODUCT CODE	VALVE SIZE	FLOW RATE	CONNECTION
VKAI015F300	DN15	15 Kvs	1/2" Female
VKAI020F300	DN20	22 Kvs	3/4" Female
VKAI025F300	DN25	22 Kvs	1" Female
VKAI032F300	DN32	35 Kvs	1 1/4" Female
VKAI040F300	DN40	68 Kvs	1 1/2" Female
VKAI050F300	DN50	90 Kvs	2" Female



TEMPERATURE RANGE	LEAKAGE RATE	PN RATING
-10...130°C	0.001% of Kvs	PN40

3 Port Ball Valves



PRODUCT CODE	VALVE SIZE	FLOW RATE	CONNECTION
BKR015F320-FF	DN15	4 Kvs	1/2" Female
BKR020F310-FF	DN20	6.3 Kvs	3/4" Female
BKR025F310-FF	DN25	10 Kvs	1" Female
BKR032F310-FF	DN32	16 Kvs	1 1/4" Female
BKR040F310-FF	DN40	25 Kvs	1 1/2" Female
BKR050F310-FF	DN50	40 Kvs	2" Female



TEMPERATURE RANGE	LEAKAGE RATE	PN RATING
-10...130°C	0.001% of Kvs	PN40

Actuators



for VKR / BKR Ball Valves



PRODUCT CODE	POWER SUPPLY	RUN TIME	ACTUATOR TYPE
AKM105F100	230V~	30s	2 / 3 Point
AKM105F120	230V~	120s	2 / 3 Point
AKM105F122	24V~	120s	2 / 3 Point
AKM105SF132	24V=/~	35/60/120s	Modulating or 2 / 3 Point

TORQUE	AMBIENT TEMPERATURE	IP RATING
4Nm	-10 ... 55°C	IP 54

Actuators



for VKR / BKR Ball Valves

* 0-10V Control Signal

Accessories



PRODUCT CODE	POWER SUPPLY	RUN TIME	ACTUATOR TYPE
AKM115F120	230V~	120s	2 / 3 Point
AKM115F122	24V~	120s	2 / 3 Point
AKM115SF132	24V=/~ *	35/60/120s	Modulating or 2 / 3 Point

TORQUE	AMBIENT TEMPERATURE	IP RATING
8Nm	-10 ... 55°C	IP 54

ACCESSORIES CODE	DESCRIPTION	FOR PRODUCT CODE
0510480001	Auxiliary Contact, Single	AKM
0510480002	Auxiliary Contact, Double	AKM
0510420001	Intermediate piece if temperature >100°C	VKR/BKR

Actuators - Spring return



for VKR / BKR Ball Valves

* 0-10V Control Signal



PRODUCT CODE	POWER SUPPLY	CLOSING SPEED	ACTUATOR TYPE
AKF112F120	230V	15s	2 Point
AKF112F122	24V~ / 24..48V=	15s	2 Point

TORQUE	AMBIENT TEMPERATURE	IP RATING
7Nm	-10 ... 55°C	IP 54

Lift & Lay Valves (Flanged) & Actuators

2 Port Lift & Lay Valves



SAUTER

PRODUCT CODE	VALVE SIZE	FLOW RATE	CONNECTION	PN RATING
VUD050F200	DN50	40 Kvs	2" Flanged	PN6
VUE050F200	DN50	40 Kvs	2" Flanged	PN10 / 16
TEMPERATURE RANGE	LEAKAGE RATE	VALVE CHARACTERISTIC	NOMINAL STROKE	
-10...150°C	≤0.05% of Kvs	Equal Percentage	8mm	

3 Port Lift & Lay Valves



SAUTER

PRODUCT CODE	VALVE SIZE	FLOW RATE	CONNECTION	PN RATING
BUD050F200	DN50	40 Kvs	2" Flanged	PN6
BUE050F200	DN50	40 Kvs	2" Flanged	PN10 / 16
TEMPERATURE RANGE	LEAKAGE RATE	VALVE CHARACTERISTIC	NOMINAL STROKE	
-10...150°C	≤0.05% of Kvs	Equal Percentage	8mm	

Actuators



PRODUCT CODE	POWER SUPPLY	SPEED 8mm	ACTUATOR TYPE	PUSHING FORCE
AVM105F120	230V~	120s	2 / 3 Point	250N
AVM105F122	24V~	120s	2 / 3 Point	250N
AVM105SF132	24V=/~*	30/60/120s	Modulating or 2/3Pt	250N
AVM115F120	230V~	120s	2 / 3 Point	500N
AVM115F122	24V~	120s	2 / 3 Point	500N
AVM115SF132	24V=/~*	60/120s	Modulating or 2/3Pt	500N
AVM321F110	230V~	4/12s/mm	2 / 3 Point	1000N
AVM321F112	24V=/~	4/12s/mm	2 / 3 Point	1000N
AVM321SF132	24V=/~*	4/12s/mm	Modulating or 2/3Pt	1000N
AVF125SF132	24V~**	40s / 80s	Modulating or 2/3Pt [1]	500N

* 0-10V Control Signal

** 0-10V / 4-20mA Control Signal

[1] Spring Return, Normally Closed

[2] Spring Return, Normally Open

*** AVF124 Ambient Temperature 5 ... 60°C

IP RATING	AMBIENT TEMPERATURE ***	NOMINAL STROKE
IP54	-10 ... 55°C	8mm

ACCESSORIES CODE	DESCRIPTION	FOR PRODUCT CODE
0372145001	Auxiliary Contact, single	AVM 1.5
0372249001	Intermediate piece if temperature >100°C	AVM1.5/AVF12-B/VUN
0372249002	Intermediate piece if temperature >130°C	AVM1.5/AVF12-B/VUN
0372273001	Siemens VVG / VXG	AVM1.5 Adapter

Accessories

SAUTER

Lift & Lay Valves (Flanged) & Actuators Continued

2 Port Lift & Lay Valves, PN6 / PN16, Flanged



PRODUCT CODE	VALVE SIZE	FLOW RATE	CONNECTION	PN RATING	STROKE
VQD065F300	DN65	63 Kvs	2 1/2"	PN6	20mm
VQE065F300	DN65	63 Kvs	2 1/2"	PN16	20mm
VQD080F300	DN80	100Kvs	3"	PN6	20mm
VQE080F300	DN80	100Kvs	3"	PN16	20mm
VQD100F300	DN100	160Kvs	4"	PN6	40mm
VQE100F300	DN100	160Kvs	4"	PN16	40mm
VQE125F300	DN125	220Kvs	5"	PN16	40mm
VQE150F300	DN150	320Kvs	6"	PN16	40mm



TEMPERATURE RANGE	LEAKAGE RATE	VALVE CHARACTERISTIC
-10... 150°C	0.001% of Kvs	Equal Percentage

3 Port Lift & Lay Valves, PN6 / PN16, Flanged



PRODUCT CODE	VALVE SIZE	FLOW RATE	CONNECTION	PN RATING	STROKE
BQD065F300	DN65	63 Kvs	2 1/2"	PN6	20mm
BQE065F300	DN65	63 Kvs	2 1/2"	PN16	20mm
BQD080F300	DN80	100Kvs	3"	PN6	20mm
BQE080F300	DN80	100Kvs	3"	PN16	20mm
BQD100F300	DN100	160Kvs	4"	PN6	40mm
BQE100F300	DN100	160Kvs	4"	PN16	40mm
BQE125F300	DN125	220Kvs	5"	PN16	40mm
BQE150F300	DN150	320Kvs	6"	PN16	40mm



TEMPERATURE RANGE	LEAKAGE RATE	VALVE CHARACTERISTIC
-10... 150°C	0.001% of Kvs	Equal Percentage

2 Port Lift & Lay Valves, PN25 / PN16, Flanged



PRODUCT CODE	VALVE SIZE	FLOW RATE	CONNECTION	PN RATING	STROKE
VUG015F304	DN15	4 Kvs	1/2"	PN16/25	20mm
VUG020F304	DN20	6.3 Kvs	3/4"	PN16/25	20mm
VUG025F304	DN25	10 Kvs	1"	PN16/25	20mm
VUG032F304	DN32	16 Kvs	1 1/4"	PN16/25	20mm
VUG040F304	DN40	25 Kvs	1 1/2"	PN16/25	20mm
VUG050F304	DN50	40 Kvs	2"	PN16/25	20mm
VUG065F316	DN65	63 Kvs	2 1/2"	PN16	40mm
VUG080F304	DN80	100Kvs	3"	PN25	40mm
VUG100F304	DN100	160Kvs	4"	PN25	40mm
VUG125F304	DN125	250Kvs	5"	PN25	40mm
VUG150F304	DN150	340Kvs	6"	PN25	40mm



TEMPERATURE RANGE	LEAKAGE RATE	VALVE CHARACTERISTIC
-20...240°C	≤0.05% of Kvs	Equal Percentage

3 Port Lift & Lay Valves, PN25 / PN16, Flanged



PRODUCT CODE	VALVE SIZE	FLOW RATE	CONNECTION	PN RATING	STROKE
BUG015F304	DN15	4 Kvs	1/2"	PN16/25	20mm
BUG020F304	DN20	6.3 Kvs	3/4"	PN16/25	20mm
BUG025F304	DN25	10 Kvs	1"	PN16/25	20mm
BUG032F304	DN32	16 Kvs	1 1/4"	PN16/25	20mm
BUG040F304	DN40	25 Kvs	1 1/2"	PN16/25	20mm
BUG050F304	DN50	40 Kvs	2"	PN16/25	20mm
BUG065F316	DN65	63 Kvs	2 1/2"	PN16	40mm
BUG080F304	DN80	100Kvs	3"	PN25	40mm
BUG100F304	DN100	160Kvs	4"	PN25	40mm
BUG125F304	DN125	250Kvs	5"	PN25	40mm
BUG150F304	DN150	340Kvs	6"	PN25	40mm



TEMPERATURE RANGE	LEAKAGE RATE	VALVE CHARACTERISTIC
-20...240°C	0.05% of Kvs	Equal Percentage

Lift & Lay Valves (Flanged) & Actuators Continued

Actuators with 20mm Stroke



*0-10V / 4-20mA Control Signal
for VQD / BQD / VQE / BQE -DN65-DN80
VUG / BUG -DN15-DN50



PRODUCT CODE	POWER SUPPLY	RUNNING TIME	ACTUATOR TYPE
AVM322F120	230V~	6 or 12 s / mm	2 / 3 Point
AVM322SF132	24V=/~*	4 or 6 s / mm	Modulating or 2/3 Point

AMBIENT TEMPERATURE	IP RATING	NOMINAL STROKE	PUSHING FORCE
-10 ... 55 °C	IP54	20mm	1000N

Actuators with 49mm Stroke



* 0-10V / 4-20mA Control Signal
for VQD / BQD / VQE / BQE -DN100-DN150
VUG / BUG -DN65-DN150
SR=Spring Return

PRODUCT CODE	POWER SUPPLY	RUNNING TIME	ACTUATOR TYPE
AVM234SF132	24V=/~*	2 / 4 / 6 s mm	Modulating or 2/3 Point
AVF234SF132	24V=/~*	2 / 4 / 6 s mm	Modulating or 2/3 Pt/SR

AMBIENT TEMPERATURE	IP RATING	STROKE	PUSHING FORCE
-10 ... 55 °C	IP66	49mm	2500N

Accessories



ACCESSORIES CODE	DESCRIPTION	FOR PRODUCT CODE
0372333001	Auxiliary Contact, Double	AVM234, AVF234
0372336180	Intermediate piece if temperature > 180°C	AVM234, AVF234
0372336240	Intermediate piece if temperature > 240°C	AVM234, AVF234
0372338001	14mm, D38 Adaptor Kit	V/BXD,V/BXE,DN15-50
0372338002	40mm, D60 Adaptor Kit	V/BXD,V/BXE,DN65-150
0372376010	Adaptor / Siemens Valves, 20mm stroke, Ø10mm Spindle	
0372376014	Adaptor / Siemens Valves, 40mm stroke, Ø14mm Spindle	

3 Port Lift & Lay Valves DN200 – DN300



Actuator 230V 0-10V
Other Voltages available on request

PRODUCT CODE	VALVE SIZE	FLOW RATE	PUSHING FORCE	MAX DELTA P
BR423-200	DN200	630 Kvs	12000N	3 Bar
BR423-250	DN250	1000 Kvs	12000N	1.8 Bar
BR423-300	DN300	1500 Kvs	24000N	4.3 Bar

TEMPERATURE RANGE	PN RATING	IP RATING
-15...150°C	PN16	IP65

Butterfly Valves & Actuators

Butterfly Valves



PRODUCT CODE	VALVE SIZE	FLOW RATE	CONNECTION
DEF050F200	DN50	85 Kvs	PN6 /PN16, Flanges
DEF065F200	DN65	215 Kvs	PN6 /PN16, Flanges
DEF080F200	DN80	420 Kvs	PN6 /PN16, Flanges
DEF100F200	DN100	800 Kvs	PN6 /PN16, Flanges
DEF125F200	DN125	1010 Kvs	PN6 /PN16, Flanges
DEF150F200	DN150	2100 Kvs	PN6 /PN16, Flanges
DEF200F200	DN200	4000 Kvs	PN6 /PN16, Flanges
TEMPERATURE RANGE	PN RATING	LEAKAGE RATE	VALVE CHARACTERISTIC
-10...130°C	PN16	<0.0001% of Kvs	Linear



Actuators for DEF Valves



Suitable for DEF25.....100 Valves
* 0(2)-10V / 0(4)-20mA Control Signal



PRODUCT CODE	POWER SUPPLY	RUNNING TIME	ACTUATOR TYPE
ADM322F122	24V=/~	120s / 240s	2/3 Point
ADM322SF122	24V=/~*	30s / 60s	Modulating or 2/3 Point
AMBIENT TEMPERATURE	IP RATING	TORQUE	
-20 ... 55°C	IP54	15Nm	

Accessories

Assembly Kits Also Available to M3R, M4R,
MH32, MH42 Valves & Other Suppliers

ACCESSORIES CODE	DESCRIPTION	FOR PRODUCT CODE
0510240014	Assembly Kit	ADM to DEF020 - 065
0510240015	Assembly Kit	ADM to DEF080 - 100



Suitable for DEF25.....200 Valves
*0-10V Control Signal



PRODUCT CODE	POWER SUPPLY	RUNNING TIME	ACTUATOR TYPE	TORQUE
ASM124F120	230V~	120s	2 / 3 Point	18Nm
ASM124F122	24V~	120s	2 / 3 Point	18Nm
ASM124SF132	24V=/~ *	60s / 120s	Modulating or 2 / 3 Point	15Nm
ASM134F130	230V~	120s / 240s	2 / 3 Point	30Nm
ASM134SF132	24V=/~ *	120s / 240s	Modulating or 2 / 3 Point	30Nm
IP RATING	AMBIENT TEMPERATURE			
IP54	-20 ... 55°C			

Accessories

ACCESSORIES CODE	DESCRIPTION	FOR PRODUCT CODE
0361977001	Assembly Kit	ASM to MH32 / 3F65 - 150 ASM to M3R020 - 050
0370990001	Auxiliary Contact, Single	
0370990002	Auxiliary Contact, Double	
0372455001	Assembly Kit	ASM to DEF025 - 065
0372455002	Assembly Kit	ASM to DEF080 - 125
0372455003	Assembly Kit	ASM to DEF150 - 200

3 Port Valves & Actuators

Actuators for DEF Valves, Spring Return



Suitable for DEF25 ... 100 Valves
* 0-10V / 0-20mA Control Signal



Accessories

PRODUCT CODE	POWER SUPPLY	RUNNING TIME	ACTUATOR TYPE
ASF122F120	230V~	90s	2 Point
ASF122F122	24 - 48V= / 24V~	90s	2 Point
ASF122F222	24 - 48V= / 24V~	90s	2 Point & Aux

AMBIENT TEMPERATURE	IP RATING	TORQUE	CLOSING TIME
-32 ... 55 °C	IP54	18Nm	15s

ACCESSORIES CODE	DESCRIPTION	FOR PRODUCT CODE
0378113001	Assembly Kit	ASF to DEF025 - 100

3 Port Mixing Valves



PRODUCT CODE	VALVE SIZE	FLOW RATE	CONNECTION
M3R020F200	DN20	6 Kvs	3/4" Female
M3R025F200	DN25	12 Kvs	1" Female
M3R032F200	DN32	18 Kvs	1 1/4" Female
M3R040F200	DN40	26 Kvs	1 1/2" Female
M3R050F200	DN50	40 Kvs	2" Female

TEMPERATURE RANGE	LEAKAGE RATE	PN RATING
2...110°C	<0.1% of Kvs	PN40



Suitable for M3R020.....50 Valves
*0-10V Control Signal



PRODUCT CODE	POWER SUPPLY	RUNNING TIME	ACTUATOR TYPE	TORQUE
ASM115F120	230V~	120s	2 / 3 Point	10Nm
ASM115F122	24V~	120s	2 / 3 Point	10Nm
ASM115SF132	24V= / ~ *	60s / 120s	Modulating or 2 / 3 Point	10Nm

IP RATING	AMBIENT TEMPERATURE
IP54	-20 ... 55 °C

Accessories

ACCESSORIES CODE	DESCRIPTION	FOR PRODUCT CODE
0361977002	Assembly Kit	ASM to M3R020 - 050
0372145001	Auxiliary Contact, Single	
0372145002	Auxiliary Contact, Double	

Pressure Independent Control Valves & Actuators

PIC Valves, DN10 – DN32 with Measurement Nipples



PRODUCT CODE	VALVE SIZE	FLOW RATE	STROKE (MM)	CONTROL RANGE (MIN MAX ΔP)
VDL010F201	DN10	65...370 l/h	5	14...800 kPa
VDL015F221	DN15	30...200 l/h	2.5	14...800 kPa
VDL015F211	DN15	65...370 l/h	5	14...800 kPa
VDL015F201	DN15	100...575 l/h	2.5	14...800 kPa
VDL020F221	DN20	100...575 l/h	2.5	14...800 kPa
VDL020F211	DN20	160...990 l/h	4	15...800 kPa
VDL020F201	DN20	220...1330 l/h	5	15...800 kPa
VDL025F211	DN25	280...1800 l/h	5.5	8...800 kPa
VDL025F201	DN25	600...3609 l/h	5.5	8...800 kPa
VDL032F201*	DN32	550...4001 l/h	5.5	8...800 kPa



Accessories

* 0361951020 is the only fitting for a VDL025F2.. and brings the connection to 3/4" female.

** 0361951025 is the only fitting for a VDL032F2.. and brings the connection to 1" female.

ACCESSORIES CODE	DESCRIPTION	FOR PRODUCT CODE
0378133010	Threaded Sleeve with cap, nut and flat seal	VDL010F2..
0378133015	Threaded Sleeve with cap, nut and flat seal	VDL015F2..
0378133020	Threaded Sleeve with cap, nut and flat seal	VDL020F2..
0361951020*	Screw Fitting for male thread with flat seal, DN20	VDL025F2..
0361951025**	Screw Fitting for male thread with flat seal, DN25	VDL032F2..

Actuators for PIC Valves, DN10 – DN32



Thermal Drive Spring Return

For: VDL010...032

* 0-10V Control Signal

ΔP Max 8.0 Bar for VDL010-032

PRODUCT CODE	POWER SUPPLY	RUN TIME	ACTUATOR TYPE	STROKE (MM)
AXT301F110	230V~	240s	Normally Closed	5.0mm
AXT301F112	24V~	240s	Normally Closed	5.0mm
AXS315F102	24V=/~ *	30s / mm	Normally Closed	6.5mm
AXS315F202	24V=/~ *	30s / mm	Normally Open	6.5mm

AMBIENT TEMPERATURE	VALVE CONNECTION	CONNECTION TYPE
0 ... 60°C	M30x1.5	Bayonet



Motor Drive

For: VDL010...032

* 0(2)-10V/0(4)-20mA Control Signal

ΔP Max 8.0 Bar for VCL010-032

PRODUCT CODE	POWER SUPPLY	RUNNING TIME	ACTUATOR TYPE	STROKE
AXM217F200	230V~	75s	3 Point	6.3mm
AXM217F202	24V=/~	75s	3 Point	6.3mm
AXM217SF402	24V=/~ *	60s	Modulating	3.2/4.3/5.5mm

AMBIENT TEMPERATURE	VALVE CONNECTION	CONNECTION TYPE
0 ... 50°C	M30x1.5	Screwed



Pressure Independent Control Valves & Actuators Continued

PIC Valves, DN40 – DN50 with Measurement Nipples



SAUTER

PRODUCT CODE	VALVE SIZE	FLOW RATE	STROKE (MM)	CONTROL RANGE (MIN MAX ΔP)
VDL040F201	DN40	1370...9500 l/h	15	8...800 kPa
VDL050F201	DN50	1400...11500 l/h	15	8...800 kPa

Actuators for PIC Valves, DN40 – DN50



* 0-10V Control Signal

SAUTER

Accessories

PRODUCT CODE	POWER SUPPLY	RUNNING TIME	ACTUATOR TYPE	STROKE
AVM215F120R	230V	7.5 s/mm	2 - 3 Point	8...20mm
AVM215SF132R	24V	7.5 / 15 s/mm	Modulating	
AMBIENT TEMPERATURE	IP RATING	STROKE	ΔP MAX	
-10 ... 55°C	IP54	8 ... 20mm	4.0 Bar	
ACCESSORIES CODE	DESCRIPTION		FOR PRODUCT CODE	
0510390029	Adapter to fit AVM215		VDL040...050	

PIC Valves, DN65 – DN100 with Measurement Nipples



SAUTER

PRODUCT CODE	VALVE SIZE	FLOW RATE	STROKE (MM)	CONTROL RANGE (MIN MAX ΔP)
VDL065F501H	DN65	6.4... 37.7 m³/h	20	30...600 kPa
VDL080F501H	DN80	8.5... 49 m³/h	20	22...600 kPa
VDL100F501H	DN100	14.8... 90.9 m³/h	40	20...600 kPa
TEMPERATURE RANGE	PN RATING	VALVE CHARACTERISTIC		
1... 120°C	PN16	Linear		

Actuators for PIC Valves, DN65 – DN150



* 0-10V / 4-20mA Control Signal

SAUTER

PRODUCT CODE	CONTROL SIGNAL	RUNNING TIME	IP RATING	STROKE
AVM215SF132-7	0-10V	150 / 300 sec	IP54	20mm
AVM234SF132-7	0-10V / 4-20mA	80 / 160 / 240 sec	IP66	40mm
AMBIENT TEMPERATURE	POWER SUPPLY			
-10 ... 55°C	24V= / ~ *			

Please scan the QR code for the latest information



SALES

RETURNS

ACCOUNTS

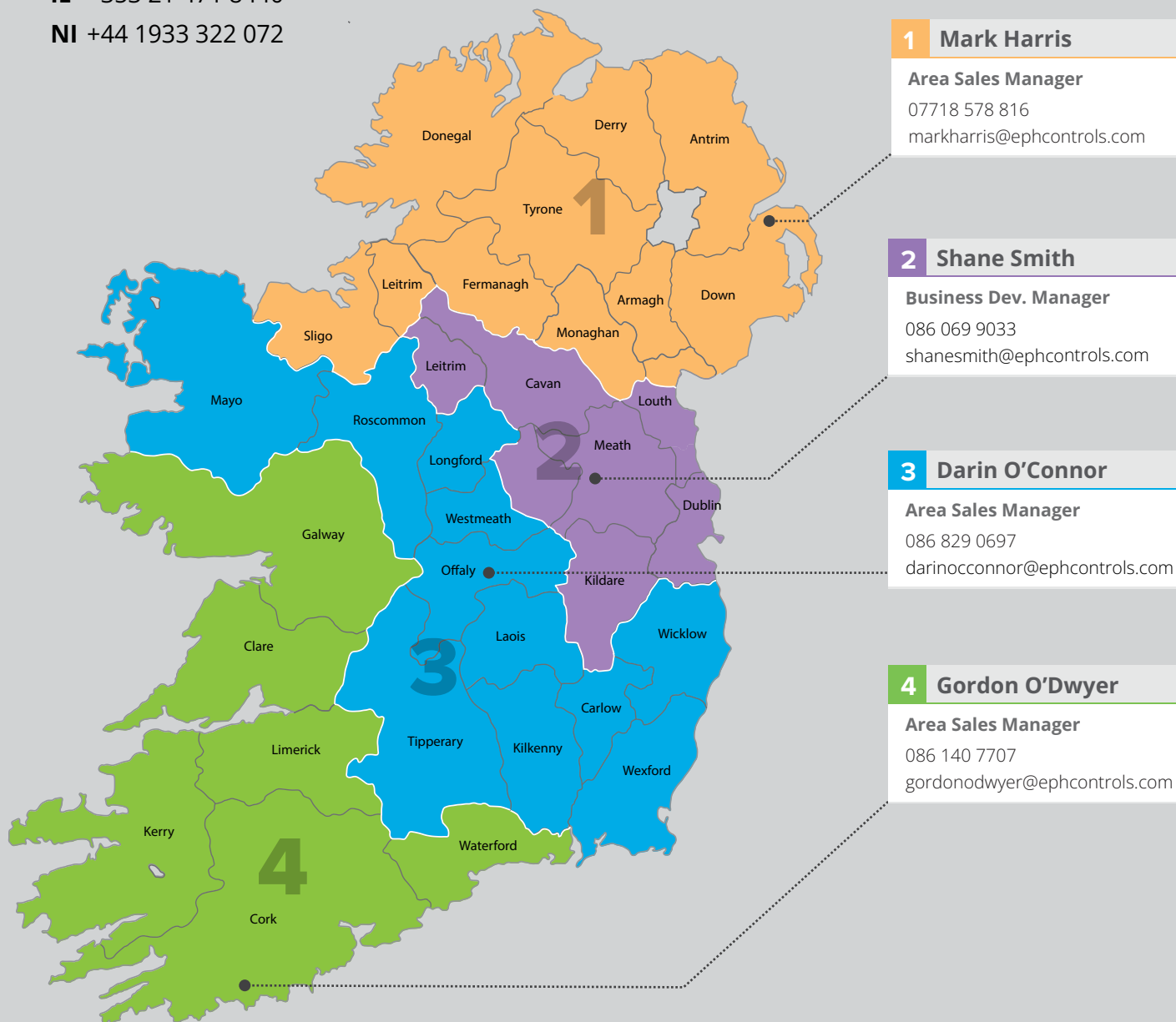
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Iconography



3 On/Off Periods



Detachable Actuator



Keypad Lock



Motor Made in USA



5 Year Warranty



Limitable Temp. Range



Open Therm



Battery Powered



Frost Protection



Mains Powered



Legionnaires Function



Cable Sensor



Indicator Light



Max 30M Distance



Service Interval



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