EPH CONTROLS

HEATING CONTROLS

RESIDENTIAL & COMMERCIAL

2024 IE / NI Catalogue

EMBER

Welcome

Explore our 2024 product range

& 27 years of excellence

EPH CONTROLS

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Underfloor Controls 230V

Wiring Centre 5 Zone 230V

NEW

PRODUCT CODE	POWER SUPPLY	NO. OF ZONES	TIME INPUTS
UFH5	230Vac, ±10%	5	3

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

Wiring Centre 10 Zone 230V

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

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

Dial Thermostat

ErP Class IV = 2%

PRODUCT CODE	POWER SUPPLY	SWITCH RATING	CONTACT TYPE
HRT	2 x AA Batteries (Incl)	8A 230v	SPST

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

Dial Thermostat with Setback Function

ErP Class IV = 2%

PRODUCT CODE	POWER SUPPLY	SWITCH RATING	CONTACT TYPE
HDT	230Vac ± 10%	7A 230V	SPST

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

Recessed Thermostat with Setback Function

ErP Class IV = 2%

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

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

Surface Mounted Thermostat

ErP Class IV = 2%

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

SENSOR TYPE	TEMP RANGE	ADJ. SWITCHING DIFFERENTIAL	SPECIAL FUNCTION
NTC100K	5 ... 35˚C	0.2 ... 1.0˚C	Delay Start & On / Off control

ErP Class IV = 2%

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

SENSOR TYPE	TEMP RANGE	ADJ. SWITCHING DIFFERENTIAL	SPECIAL FUNCTION
NTC100K	5 ... 35˚C	0.2 ... 1.0˚C	Delay Start & On / Off control

Recessed Programmable Thermostat

ErP Class IV = 2%

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

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

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

Underfloor Controls 230V Continued

Surface Mounted Programmable Thermostat

ErP Class IV = 2%

On / Off control & TPI

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

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

ErP Class IV = 2%

On / Off control & TPI

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

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

Thermal Actuator

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

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

Wiring Centre 10 Zone 24V

NEW

PRODUCT CODE	POWER SUPPLY	NO. OF ZONES	TIME INPUTS
UFH10-24	24Vac, ±10%	10	4

CONTACT RATING	UFH/RAD+HW SWITCHES	HEAT ENABLE OUTPUT	UFH PUMP OUTPUT
3(1)A	2	Volt Free	230V~

Recessed Programmable Thermostat

NEW

PRODUCT CODE	POWER SUPPLY	SWITCH RATING	SWITCH OUTPUT
RDTP-24	24Vac	5(1)A 24Vac	SPDT Volt Free

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

ErP Class IV = 2%

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

Surface Mounted Thermostat

NEW

PRODUCT CODE	POWER SUPPLY	SWITCH RATING	CONTACT TYPE
CDT2-24	24Vac ±10%	5(1)A 24Vac	SPDT Volt Free

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

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

Thermal Actuator

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

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

RF Underfloor Controls

RF Wiring Centre 10 Zone

US

NEW

PRODUCT CODE	POWER SUPPLY	NO. OF ZONES	TIME INPUTS
UFH10-RF	230Vac, ±10%	10	10

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

5 YEAR WARRANTY · BOX QTY 10 · CE · UK CA

RF Thermostat with Setback Function

PS US

NEW

PRODUCT CODE	TYPE	TEMP RANGE	FOR USE WITH
RFRB[V2]	Room thermostat with on/off button	5 ... 35°C	UFH10-RF or R_7-RF
RFR[V2]	Room thermostat with boost button	5 ... 35°C	UFH10-RF or R_7-RF

Mounting Type:
Wall or free standing

RF RANGE	AMBIENT TEMP RANGE	DIMENSIONS	POWER SUPPLY
Max 30m	0 ... 45°C	86 x 86 x 25mm	2 x AAA (incl.)

5 YEAR WARRANTY · 30 METRE · EMBER APP · BOX QTY 40 · CE · UK CA

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

RF Cylinder Thermostat

PS US

NEW

PRODUCT CODE	TYPE	TEMP RANGE	FOR USE WITH
RFC[V2]	Cylinder thermostat with boost button	10 ... 90°C	R_7-RF or UFH10-RF

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

5 YEAR WARRANTY · 30 METRE · EMBER APP · BOX QTY 40 · CE · UK CA

RF Dial Thermostat with Setback Function – Mains Powered

PS US

NEW

PRODUCT CODE	POWER SUPPLY	SWITCH RATING	CONTACT TYPE
HDT-RF	230Vac ± 10%	7A 230V	SPST

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

SENSOR TYPE	TEMP RANGE	ADJ. SWITCHING DIFFERENTIAL	FOR USE WITH
NTC100K	5 ... 35°C	0 ... 1.0°C	R_7-RF or UFH10-RF

5 YEAR WARRANTY · TPI · BOX QTY 60 · CE · UK CA

RF Recessed Thermostat with Setback Function – Mains Powered

PS US

NEW

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

SENSOR TYPE	TEMP RANGE	ADJ. SWITCHING DIFFERENTIAL	FOR USE WITH
NTC100K	5 ... 35˚C	0 ... 1.0˚C	R_7-RF or UFH10-RF

ErP Class IV = 2%
Delay start & On / Off control / TPI /
Setback Function
Compatible with up to 2 remote sensors

5 YEAR WARRANTY · TPI · BOX QTY 40

CE UKCA

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

RF Surface Mounted Thermostat with Setback Function – Mains Powered

PS US

NEW

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

SENSOR TYPE	TEMP RANGE	ADJ. SWITCHING DIFFERENTIAL	FOR USE WITH
NTC100K	5 ... 35˚C	0.2 ... 1.0˚C	R_7-RF or UFH10-RF

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

5 YEAR WARRANTY · TPI · BOX QTY 84

CE UKCA

GW04 WiFi Gateway

PS TS US RS

Used to upgrade your UFH10-RF to EMBER App Control

NEW

PRODUCT CODE	TYPE	FOR USE WITH
GW04	RF / WiFi Interface (Dual band 2.4 / 5GHz)	UFH10-RF or R_7-RF

RF RANGE	AMBIENT TEMP RANGE	POWER SUPPLY
Max 10m	0 ... 45˚C	230Vac ±10%

5 YEAR WARRANTY · 30 METRE · EMBER APP · BOX QTY 50 · CE UKCA

Smart Radiator Controls

16 Zone Controller

RS

	PRODUCT CODE	NUMBER OF ZONES	SWITCH OUTPUT	SCREEN DIMENSIONS
NEW	RF16	16	230Vac	100 x 35 mm

SWITCH RATING	AMBIENT TEMP	BACKPLATE	OPERATING PERIODS	PROGRAMMING MODE
5(1)A 230Vac	0 ... 45°C	6 pin	6 per day	5/2d - 7d - 24h

Wireless Smart Radiator Thermostat

RS

	PRODUCT CODE	TYPE	TEMP RANGE	FOR USE WITH
NEW	eTRV	Smart Radiator Thermostat	5 ... 35°C	RF16 & EMBER RS

Designed for use with EPH Controls TRV valves

RF RANGE	AMBIENT TEMP	DIMENSIONS	POWER SUPPLY	CONNECTION
Max 30m	0 ... 50°C	86 x 86 x 25mm	2 x AAA (incl.)	M30 x 1.5

Wireless Smart Cylinder Thermostat

RS

	PRODUCT CODE	TYPE	TEMP RANGE	FOR USE WITH
NEW	eTRV-HW	Smart Hot Water Thermostat	5 ... 90°C	RF16 & EMBER RS

Designed for use with EPH Controls TRV valves

RF RANGE	AMBIENT TEMP	DIMENSIONS	POWER SUPPLY	CONNECTION
Max 30m	0 ... 50°C	86 x 86 x 25mm	2 x AAA (incl.)	M30 x 1.5

2 Port Valve

	PRODUCT CODE	CONNECTION TYPE	BI DIRECTIONAL	MAX. FLUID TEMP.
NEW	SEMTRVB22	22mm Compression	No	88°C

FLOW RATE	MAXIMUM DIFFERENTIAL PRESSURE	MAXIMUM PRESSURE	CONNECTION
3500 l/hr	1.0 bar	PN16	M30 x 1.5

GW04 WiFi Gateway

PS TS US RS

Used to upgrade your RF16 to EMBER App Control

	PRODUCT CODE	TYPE	FOR USE WITH
NEW	GW04	RF/WiFi Interface (Dual band 2.4 / 5GHz)	RF16 & EMBER RS

RF RANGE	AMBIENT TEMP RANGE	POWER SUPPLY
Max 10m	0 ... 45°C	230Vac ±10%

Immersion Controller

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

CONTACT RATING	OPERATING PERIODS	DIMENSIONS	MAX AMBIENT TEMP RANGE
16A Resistive	3 per day	170 x 116 x 63 mm	0 ... 45˚C

Electronic Boost Timer

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

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

Cylinder / Room Thermostat

Cylinder or Room thermostat with remote probe sensor

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

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

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

Cylinder Thermostat with High Limit

Built-in Legionaires function

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

SENSOR TYPE	TEMP RANGE	ADJ. SWITCHING DIFFERENTIAL	HIGH LIMIT CUT OUT
NTC10K	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

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

SWITCH 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
V222FP	3/4" female BSP	4.6 kvs	1.0 bar	No
V228FP	1" female BSP	6.8 kvs	0.6 bar	No
V232FP	1 1/4" female BSP	8.0 kvs	0.3 bar	No

SWITCH 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
DS222PNO	22mm compression	4.6 kvs	1.0 bar	Yes
DS228PNO	22mm compression	6.8 kvs	0.6 bar	Yes

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

3 Port Diverter Valve - High Flow Rate

5 YEAR WARRANTY · MOTOR USA · BOX QTY 10 · CE · UK CA

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

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

3 Port Mid Position Valve - High Flow Rate

5 YEAR WARRANTY · MOTOR USA · BOX QTY 10 · CE · UK CA

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

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

Replacement Actuator

DETACH PRO ▶

A1P, C1P & DT1P c/w
Light
Detach cable
Detach button

DS1P & M1P c/w
Light
Detach cable

D1PF c/w
Detach cable

5 YEAR WARRANTY · MOTOR USA · BOX QTY 20 · CE · UK CA

PRODUCT CODE	SWITCH RATING	REPLACEMENT FOR MODEL		
A1P	11(3)A 230Vac	2 Port	EPH V type	Horstmann F222 / F228
C1P	11(3)A 230Vac	2 Port	Honeywell V404	Horstmann Z222 / Z228
DS1P	11(3)A 230Vac	2 Port	Danfoss HP22B / HP28B / HP15B	
			Danfoss HP1.75B / HP1.0B	
			Sunvic SZ / SZM / SM	
NEW DT1P	11(3)A 230Vac	2 Port	Drayton ZA5/679-2	Drayton ZA6/779-2
M1P	11(3)A 230Vac	2 Port	Myson MPE22	Myson MPE28
			Myson MCZV2 3/4	Myson MCZV21
D1PF	5(2)A 230Vac	3 Port	EPH B322P / B328P	EPH B322PF / B328PF
			Honeywell V407	Horstmann Z322 / Z328

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

Accessories

Cable harness to convert
Detach actuator to
Detach Pro actuator.

BOX QTY 250 · CE · UK CA

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

BOX QTY 40 · CE · UK CA

PRODUCT CODE	DESCRIPTION
NEW DP2.5M	2.5 Metre Detach cable for 2 port 5 wire actuators
DP5M	5 Metre Detach cable for 2 port 5 wire actuators

Hardwired Control Packs

Y Plan Control Pack

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTATS		WIRING CENTRE
CA22P	A27-HW	B322MID	CM2	WRP	WC2
CA28P	A27-HW	B328MID	CM2	WRP	WC2

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTATS		WIRING CENTRE
CR22P	R27^{V2}	B322MID	CM2	WRP	WC2
CR28P	R27^{V2}	B328MID	CM2	WRP	WC2

BOX QTY 6 CE UK CA

1 Zone Control Pack

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

BOX QTY 6 CE UK CA

S Plan Control Pack

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	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 VALVE	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

BOX QTY 6 CE UK CA

2 Zone Control Pack

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	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

BOX QTY 6 CE UK CA

S Plan Unvented Control Pack

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

BOX QTY 6 CE UK CA

2 Zone Combi Zoning Control Pack

Pictures for reference only, thermostats will differ in packs.

BOX QTY 6 CE UK CA

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

BOX QTY 6 CE UK CA

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	CM3 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

Hardwired Control Packs Continued

3 Zone Control Pack

BOX QTY 6

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTATS		WIRING CENTRE
CR3P	R37V2	V221P x 3	CM2 x 2	WRP	WC2
CR322P	R37V2	V222P x 3	CM2 x 2	WRP	WC2
CR328P	R37V2	V228P x 3	CM2 x 2	WRP	WC2
CR3P-382211	R37V2	DS222P x 3	CM2 X 2	WRP	WC2

3 Zone Unvented Control Pack

BOX QTY 6

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTATS	WIRING CENTRE
CR3PU	R37V2	V221P x 2	CM2 x 2	WC2
CR322PU	R37V2	V222P x 2	CM2 x 2	WC2
CR3P-222301	R37V2	V222P x 3	CM2 x 2	WC2
CR3P-282301	R37V2	DS22P x 2	CM3 x 2	WC2
CR3P-282401	R37V2	DS222P x 2	CDT2 x 2	WC2
CR328PU	R37V2	V228P x 2	CM2 x 2	WC2

3 Zone Combi Zoning Control Pack

Pictures for reference only, thermostats will differ in packs.

BOX QTY 6

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	R37V2	V221P x 3	CM2 x 3	WC2
CR3P-313301	R37V2	V221P x 3	CM3 x 3	WC2
CR3P-322301	R37V2	V222P x 3	CM3 x 2	WC2
CR3P-323201	R37V2	V222P x 3	CM2 x 3	WC2
CR3P-323301	R37V2	V222P x 3	CM3 x 3	WC2

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

BOX QTY 6 CE UK CA

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

BOX QTY 6 CE UK CA

Wiring Centres

Wiring Centre

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

BOX QTY 20 BOX QTY 24

Wiring Centre with PCB

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

BOX QTY 20

Wiring Centre 5 Zone 230V

NEW

PRODUCT CODE	POWER SUPPLY	NO. OF ZONES	TIME INPUTS
UFH5	230Vac, ±10%	5	3

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

5 YEAR WARRANTY BOX QTY 20

Wiring Centre 10 Zone 230V

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

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

5 YEAR WARRANTY BOX QTY 10

Wiring Centre 10 Zone 24V

NEW

PRODUCT CODE	POWER SUPPLY	NO. OF ZONES	TIMED INPUTS
UFH10-24	24Vac, ±10%	10	4

CONTACT RATING	UFH / RAD + HW SWITCHES	HEAT ENABLE OUTPUT	UFH PUMP OUTPUT
3(1)A	2	Volt Free	24V~

RF Wiring Centre 10 Zone

NEW

PRODUCT CODE	POWER SUPPLY	NO. OF ZONES	TIMED INPUTS
UFH10-RF	230Vac, ±10%	10	10

CONTACT RATING	UFH / RAD + HW OUTPUTS	HEAT ENABLE OUTPUT	UFH PUMP OUTPUT
5A	10	Volt Free	230V~

Mechanical Room Thermostats

Thermostat

ErP Class I - 1%

*CM2 Combi Stat

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

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

Frost Thermostat

ErP Class I - 1%

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

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

Tamperproof Thermostat

ErP Class I - 1%

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

CONTACT TYPE	TEMPERATURE RANGE	IP RATING	SWITCHING DIFFERENTIAL
SPDT	5 ... 35°C	IP20	±1°C

Thermostat with On/Off Switch

ErP Class I - 1%

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

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

Intermediate Plate

PRODUCT CODE	DIMENSIONS
SMB	95 x 95 mm

FOR USE WITH PRODUCTS
CM2, CM3, CM3-24, CMF, CMT, CDT2, CDT2-RF, CDT2-24, CRT2, CDTP2, CRTP2, HDT, HDT-RF

Mechanical Pipe / Cylinder Thermostats

Pipe / Cylinder Thermostat

BOX QTY 50 CE UKCA

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

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

Immersion Thermostat

BOX QTY 20 BOX QTY 50 CE UKCA

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

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

Dual Thermostat with Manual Reset

BOX QTY 20 CE UKCA

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

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

Outside Frost Thermostat

BOX QTY 2 CE UKCA

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

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

Frost Thermostat Controller

BOX QTY 1 CE UKCA

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

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

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

Programmers

1 Zone Timeswitch

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

PRODUCT CODE	NUMBER OF ZONES	SWITCH OUTPUT	SCREEN DIMENSIONS
R17V2	1	Volt Free	100 x 35 mm

SWITCH RATING	AMBIENT TEMP	BACKPLATE	OPERATING PERIODS	PROGRAMMING MODE
3(1)A 230Vac	0 ... 45˚C	6 pin	3 per day	5/2d - 7d - 24h

2 Zone Programmer

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

R27

R27-VF

PRODUCT CODE	NUMBER OF ZONES	SWITCH OUTPUT	SCREEN DIMENSIONS
R27V2	2	230Vac	100 x 35 mm
R27-VF	2	Volt Free	100 x 35 mm

SWITCH RATING	AMBIENT TEMP	BACKPLATE	OPERATING PERIODS	PROGRAMMING MODE
3(1)A 230Vac	0 ... 45˚C	6 pin	3 per day	5/2d - 7d - 24h

3 Zone Programmer

PRODUCT CODE	NUMBER OF ZONES	SWITCH OUTPUT	SCREEN DIMENSIONS
R37V2	3	230Vac	100 x 35 mm

SWITCH RATING	AMBIENT TEMP	BACKPLATE	OPERATING PERIODS	PROGRAMMING MODE
3(1)A 230Vac	0 ... 45˚C	8 pin	3 per day	5/2d - 7d - 24h

4 Zone Programmer

PRODUCT CODE	NUMBER OF ZONES	SWITCH OUTPUT	SCREEN DIMENSIONS
R47V2	4	230Vac	100 x 35 mm

SWITCH RATING	AMBIENT TEMP	BACKPLATE	OPERATING PERIODS	PROGRAMMING MODE
3(1)A 230Vac	0 ... 45˚C	8 pin	3 per day	5/2d - 7d - 24h

Dial Thermostat

ErP Class IV = 2%

PRODUCT CODE	POWER SUPPLY	SWITCH RATING	CONTACT TYPE
HRT	2 x AA Batteries (Incl)	8A 230v	SPST

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

Dial Thermostat with Setback Function

ErP Class IV = 2%

PRODUCT CODE	POWER SUPPLY	SWITCH RATING	CONTACT TYPE
HDT	230Vac ± 10%	7A 230V	SPST

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

Recessed Thermostat with Setback Function

ErP Class IV = 2%

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

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

Surface Mounted Thermostat

ErP Class IV = 2%

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

SENSOR TYPE	TEMP RANGE	ADJ. SWITCHING DIFFERENTIAL	SPECIAL FUNCTION
NTC100K	5 ... 35˚C	0.2 ... 1.0˚C	Delay Start

ErP Class IV = 2%

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

SENSOR TYPE	TEMP RANGE	ADJ. SWITCHING DIFFERENTIAL	SPECIAL FUNCTION
NTC100K	5 ... 35˚C	0.2 ... 1.0˚C	Delay Start

Programmable Room Thermostats

Recessed Programmable Thermostat

ErP Class IV = 2%

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

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

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

Surface Mounted Programmable Thermostat

ErP Class IV = 2% On / Off control

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

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

ErP Class IV = 2% On / Off control

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

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

ErP Class V= 3% On / Off control

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

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

ErP Class V= 3% On / Off control

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

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

RF Thermostat & Receiver

ErP Class I = 1%

PRODUCT CODE	COMPONENTS	SWITCH RATING	SWITCH OUTPUT
CP3	RFRA^{V2} & RF1	10A 230Vac	SPDT Volt Free

SENSOR TYPE	TEMP RANGE	ON/OFF BUTTON
NTC100K	5 ... 35˚C	Yes

RF Programmable Thermostat & Receiver

Add a Gateway to upgrade to EMBER App Control TS

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

NEW

PRODUCT CODE	COMPONENTS	TEMP RANGE	SWITCH OUTPUT
CP4^{V2}	RFRP^{V2} & RF1B	5 ... 35˚C	SPDT Volt Free

NEW

PRODUCT CODE	COMPONENTS	TEMP RANGE	SWITCH OUTPUT
CP4D	RFRPD & RF1B	5 ... 35˚C	SPDT Volt Free

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

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

Smart Thermostat, Receiver & Gateway

TS

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

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

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

Wireless Programmable | Pre-paired Components | Portable or Wall Mounted |

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.

CP4V2

Meet the CP4V2, the latest version of the favourite CP4. Building on its predecessor's success, CP4V2 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 CP4V2 adds convenience to the user while enhancing the installation experience for the installer.

Thermostat

Heating Control System

EMBER TS

Download on the App Store · GET IT ON Google play · works with the Google Assistant · WORKS WITH alexa · SP OpenTherm® · BOILER PLUS

Boost Function | Holiday Mode | Battery Operated | Keypad Lock

5 Years Warranty Standard

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

the best just got better :)

Make it Smart! The GW04 gateway is the perfect addition to any CP4, CP4^{V2}, 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.

- VOICE CONTROL
- CONVENIENT
- MULTIPLE CONTROL
- COST EFFECTIVE
- MULTI ZONE
- EASY INSTALLATION
- USER FRIENDLY
- OPENTHERM®
- PROGRAMMABLE

ErP Class V +3%

When one thermostat is fitted in conjuction with a modulating boiler

ErP Class VIII +5%

When three thermostats are fitted in conjuction with a modulating boiler

Smart

Heating Control

EMBER

1 APP

4

SYSTEMS

PS

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.

GW04

R17-RF^{V2}

R27-RF^{V2}

R37-RF^{V2}

R47-RF^{V2}

RFR^{V2}

RFC^{V2}

RFRB^{V2}

HDT-RF

RDT-RF

CDT2-RF

RS

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.

GW04

RF16

eTRV

eTRV-HW

SEMTRVB22

TS

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.

GW04

CP4 *

CP4-HW-OT *

CP4^{V2}

CP4D

US

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.

GW04

UFH10-RF

RFR^{V2}

RFC^{V2}

RFRB^{V2}

HDT-RF

RDT-RF

CDT2-RF

TA230

*Gateway model dependant on software version

RF Cylinder Thermostats / RF Mains Switch

RF Cylinder Thermostat & Receiver

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

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

RF Programmable Cylinder Thermostat & Receiver

Add a Gateway to upgrade to EMBER App Control TS

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

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

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

RF Mains Switch

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

RF RANGE	AMBIENT TEMP RANGE	DIMENSION	POWER SUPPLY
Max 30m	0-45°C	84 x 84 x 30mm	230Vac ±10%

TR1 TR2 RF Mains Switch

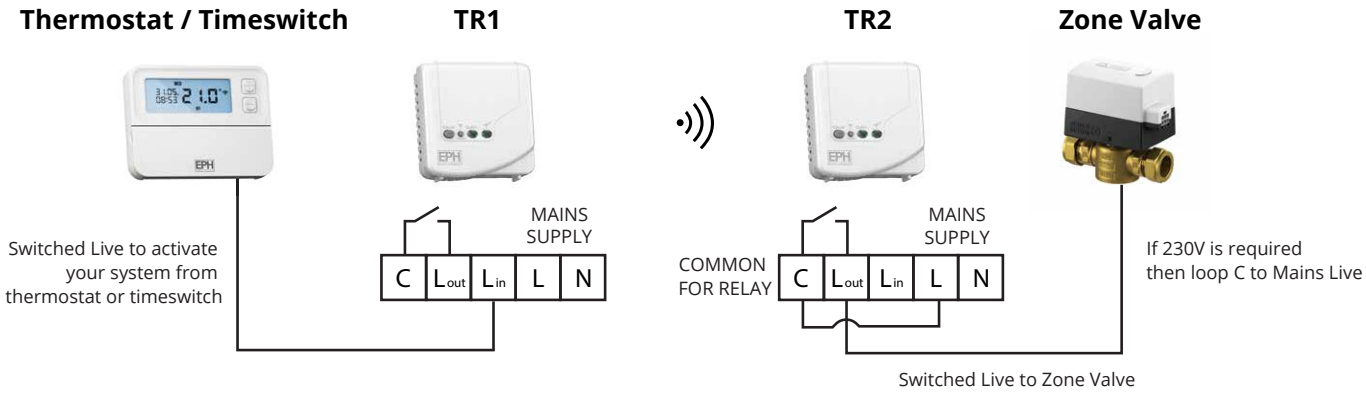
Ideal for any installation where its not possible to run cables

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

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

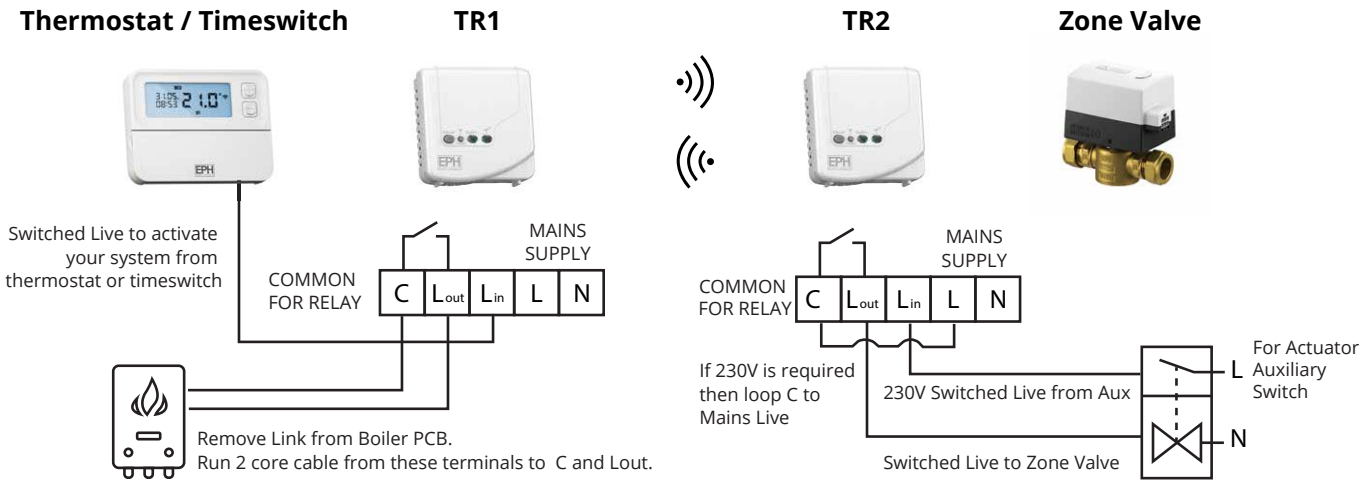
Single Wireless Switch

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

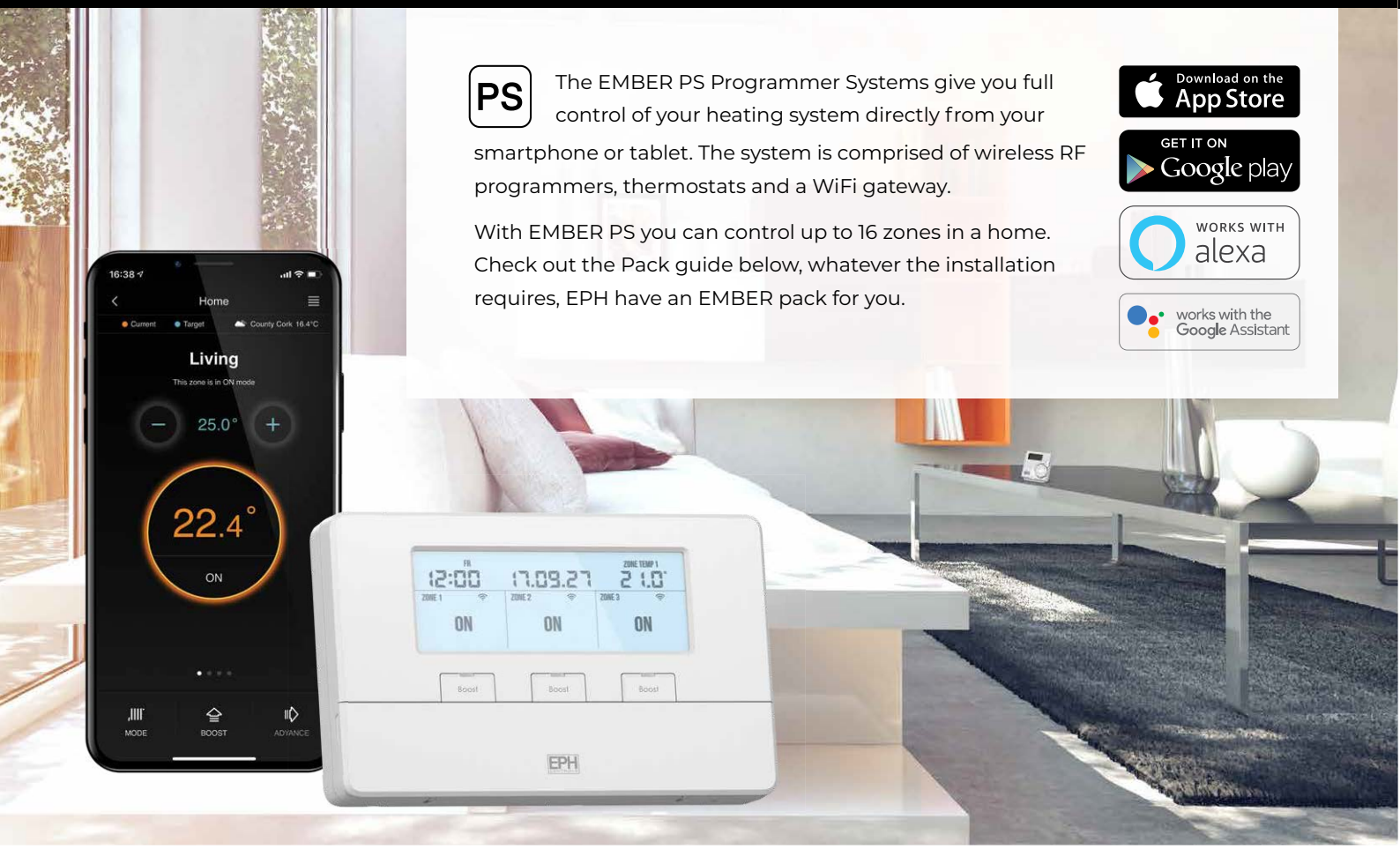


Double Wireless Switch (Boiler Interlock)

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



PS Smart Programmer Systems



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

With EMBER PS you can control up to 16 zones in a home. Check out the Pack guide below, whatever the installation requires, EPH have an EMBER pack for you.

Download on the App Store

GET IT ON Google play

WORKS WITH alexa

works with the Google Assistant

EMBER PS SMART HEATING CONTROL - PACK GUIDE

		R17-RF^{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 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 Timeswitch

PS

Add a GW04 to upgrade to EMBER App Control (see page 32)

NEW

PRODUCT CODE	NUMBER OF CHANNELS	SWITCH OUTPUT	BACKPLATE TYPE
R17-RF^{V2}	1	Volt Free SPDT	6 pin

For use with: RFR^{V2} | RFC^{V2} | EMBER

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

SWITCH RATING	AMBIENT TEMP RANGE	SCREEN DIMENSION	OPERATING PERIODS
3(1)A 230Vac	0 ... 45°C	100 x 35mm	3 per day

5 YEAR WARRANTY · 30 METRE · EMBER APP · BOX QTY 40 · CE · UK CA

2 Zone Programmer

PS

Add a GW04 to upgrade to EMBER App Control (see page 32)

NEW

PRODUCT CODE	NUMBER OF CHANNELS	SWITCH OUTPUT	BACKPLATE TYPE
R27-RF^{V2}	2	230Vac SPDT	6 pin

For use with: RFR^{V2} | RFC^{V2} | EMBER

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

SWITCH RATING	MAX AMBIENT TEMP RANGE	SCREEN DIMENSION	OPERATING PERIODS
3(1)A 230Vac	0 ... 45°C	100 x 35mm	3 per day

5 YEAR WARRANTY · 30 METRE · EMBER APP · BOX QTY 40 · CE · UK CA

3 Zone Programmer

PS

Add a GW04 to upgrade to EMBER App Control (see page 32)

NEW

PRODUCT CODE	NUMBER OF CHANNELS	SWITCH OUTPUT	BACKPLATE TYPE
R37-RF^{V2}	3	230Vac SPDT	8 pin

For use with: RFR^{V2} | RFC^{V2} | EMBER

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

SWITCH RATING	MAX AMBIENT TEMP RANGE	SCREEN DIMENSION	OPERATING PERIODS
3(1)A 230Vac	0 ... 45°C	100 x 35mm	3 per day

5 YEAR WARRANTY · 30 METRE · EMBER APP · BOX QTY 40 · CE · UK CA

4 Zone Programmer

PS

Add a GW04 to upgrade to EMBER App Control (see page 32)

NEW

PRODUCT CODE	NUMBER OF CHANNELS	SWITCH OUTPUT	BACKPLATE TYPE
R47-RF^{V2}	4	230Vac SPST	8 pin

For use with: RFR^{V2} | RFC^{V2} | EMBER

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

SWITCH RATING	MAX AMBIENT TEMP RANGE	SCREEN DIMENSION	OPERATING PERIODS
3(1)A 230Vac	0 ... 45°C	100 x 35mm	3 per day

5 YEAR WARRANTY · 30 METRE · EMBER APP · BOX QTY 40 · CE · UK CA

RF Thermostats & WiFi Gateways

RF Room Thermostat PS US

Mounting Type: Wall or Free standing

5 YEAR WARRANTY · 30 METRE · EMBER APP · BOX QTY 40 · CE · UK CA

NEW

PRODUCT CODE	TYPE	TEMP RANGE	FOR USE WITH
RFR^{V2}	Room thermostat with boost button	5 ... 35˚C	R_7-RF & EMBER
RFRB^{V2}	Room thermostat with on/off button	5 ... 35˚C	R_7-RF & EMBER

RF RANGE	AMBIENT TEMP RANGE	DIMENSIONS	POWER SUPPLY
Max 30m	0 ... 45˚C	86 x 86 x 25mm	2 x AAA (incl.)

RF Cylinder Thermostat PS US

5 YEAR WARRANTY · 30 METRE · EMBER APP · BOX QTY 40 · CE · UK CA

NEW

PRODUCT CODE	TYPE	TEMP RANGE	FOR USE WITH
RFC^{V2}	Cylinder thermostat with boost button	10 ... 90˚C	R_7-RF & EMBER

RF RANGE	AMBIENT TEMP RANGE	DIMENSIONS	POWER SUPPLY
Max 30m	0 ... 45˚C	86 x 86 x 25mm	2 x AAA (incl.)

GW01 WiFi Gateway PS

Used to upgrade your programmer to EMBER App Control

5 YEAR WARRANTY · FROST · 30 METRE · EMBER APP · BOX QTY 60 · CE · UK CA

PRODUCT CODE	TYPE	FOR USE WITH
GW01	RF/WiFi Interface	R17-RF, R27-RF, R37-RF, R47-RF Version 1 only

RF RANGE	AMBIENT TEMP RANGE	POWER SUPPLY
Max 10m	0 ... 45˚C	230Vac ±10%

GW03 WiFi Gateway TS

Used to upgrade your CP4 to EMBER App Control

5 YEAR WARRANTY · FROST · 30 METRE · EMBER APP · BOX QTY 50 · CE · UK CA

PRODUCT CODE	TYPE	FOR USE WITH
GW03	RF/WiFi Interface (Dual band 2.4 / 5GHz)	EMBER TS, CP4 only

RF RANGE	AMBIENT TEMP RANGE	POWER SUPPLY
Max 10m	0 ... 45˚C	230Vac ±10%

GW04 WiFi Gateway PS TS US RS

Used to upgrade your system to EMBER App Control

5 YEAR WARRANTY · FROST · 30 METRE · EMBER APP · BOX QTY 50 · CE · UK CA

NEW

PRODUCT CODE	TYPE	FOR USE WITH
GW04	RF/WiFi Interface (Dual band 2.4 / 5GHz)	R17-RF^{V2}, R27-RF^{V2}, R37-RF^{V2}, R47-RF^{V2}, CP4^{V2}, CP4D, UFH10-RF, RF16

RF RANGE	AMBIENT TEMP RANGE	POWER SUPPLY
Max 10m	0 ... 45˚C	230Vac ±10%

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 Programmer Pack

Add a GW04 to upgrade to EMBER App Control (see page 32) PS

NEW

PRODUCT CODE	PROGRAMMER	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)

5 YEAR WARRANTY · 30 METRE · EMBER APP · BOX QTY 1 · CE · UK CA

2 Zone Wireless Programmer Pack

Add a GW04 to upgrade to EMBER App Control (see page 32) PS

NEW

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

5 YEAR WARRANTY · 30 METRE · EMBER APP · BOX QTY 1 · CE · UK CA

3 Zone Wireless Programmer Pack

Add a GW04 to upgrade to EMBER App Control (see page 32) PS

NEW

PRODUCT CODE	PROGRAMMER	THERMOSTAT	
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	-

5 YEAR WARRANTY · 30 METRE · EMBER APP · BOX QTY 1 · CE · UK CA

4 Zone Wireless Programmer Pack

Add a GW04 to upgrade to EMBER App Control (see page 32) PS

NEW

PRODUCT CODE	PROGRAMMER	THERMOSTAT	
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	-

5 YEAR WARRANTY · 30 METRE · EMBER APP · BOX QTY 1 · CE · UK CA

RF Heating Control Packs

Y Plan RF Heating Control Pack

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTAT		WIRING CENTRE
CR22PRF	R27-RF^{V2}	B322MID	RFR^{V2}	RFC^{V2}	WC2
CR28PRF	R27-RF^{V2}	B328MID	RFR^{V2}	RFC^{V2}	WC2

S Plan RF Heating Control Pack

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTAT		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 VALVE	THERMOSTAT		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 VALVE	THERMOSTAT	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

PS

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTAT		WIRING CENTRE
CR3PRF	R37-RF^{V2}	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

PS

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTAT	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

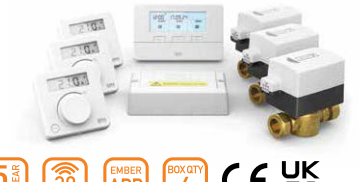
3 Zone RF Heating Control Pack with Hardwired Cylinder Thermostat

PS

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTAT		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

PS



PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTAT	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

PS

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTAT		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

4 Zone RF Unvented Heating Control Pack

PS

PRODUCT CODE	PROGRAMMER	MOTORISED VALVE	THERMOSTAT	WIRING CENTRE
CR4PURF	R47-RF^{V2}	V221P x 3	RFR^{V2} x 3	WC2
CR422PURF	R47-RF^{V2}	V222P x 3	RFR^{V2} x 3	WC2
CR428PURF	R47-RF^{V2}	V228P x 3	RFR^{V2} x 3	WC2

Radiator Controls

TRV Single Pack - Chrome Angled

PRODUCT CODE	CONNECTION TYPE	BI DIRECTIONAL
CTRV15C	15mm Compression	Yes

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

TRV Twin Pack - Chrome Angled

PRODUCT CODE	CONNECTION TYPE	BI DIRECTIONAL
EMTRV15C	15mm Compression	Yes

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

TRV Twin Pack - Chrome Straight

PRODUCT CODE	CONNECTION TYPE	BI DIRECTIONAL
SEMTRV15C	15mm Compression	Yes

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

TRV Single Pack - Angled

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

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

TRV Twin Pack - Angled for 16mm Multi Layer Pipe

PRODUCT CODE	CONNECTION TYPE	BI DIRECTIONAL	ACCESSORIES
EMTRVMLP	16mm multi layer pipe	Yes	-

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

BOX QTY 25

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

BOX QTY 50

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

BOX QTY 25

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

BOX QTY 25

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

BOX QTY 100

Drain Off Valve

BOX QTY 200

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

Lockshield Drain Off Valve

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

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 Compression

BOX QTY 60

PRODUCT CODE	CONNECTION TYPE	BI DIRECTIONAL
TRVB15	15mm Compression	Yes

Max. Differential Pressure: 0.6 bar

Thermal Actuator

For use with: TRVB15

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

BOX QTY 100 CE UK CA

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

Thermostatic Heads

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

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

Reduced Mobility Accessory

PRODUCT CODE	DESCRIPTION
RMA	Reduced Mobility Accessory for EPH TRVs

Thermostatic Mixing Valves

Thermostatic Mixing Valves

Point of Use, In Line

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

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

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.

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)

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 = WRP-IM-TP	4 = WCB
CR	3P = R37	-		5 = V228FP		5 = CMT	5 = WRP-TP	
CR	4P = R47	-		6 = B322MID		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		

RF Control Pack Coding System

CONTROL PACK	PROGRAMMER		MOTORISED VALVES		ROOM STATS		CYLINDER STATS	WIRING CENTRE
CODE	TYPE	-	QTY	MODEL	QTY	MODEL	MODEL	MODEL
C0	0P = None	-	0 = 0	0 = None	0 = 0	0 = None	0 = None	0 = None
CRF	1P = R17-RF	-	1 = 1	1 = V221P	1 = 1	2 = RFR	1 = RFC	1 = WC2
CRF	2P = R27-RF	-	2 = 2	2 = V222P	2 = 2	3 = CM2	2 = WRP	2 = WC3
CRF	3P = R37-RF	-	3 = 3	3 = V228P	3 = 3	4 = CM3	3 = WRP-IM	3 = WCA
CRF	4P = R47-RF	-	4 = 4	4 = V222FP	4 = 4	5 = RFRB	4 = WRP-IM-TP	4 = WCB
				5 = V228FP			5 = WRP-TP	
				6 = B322MID			6 = DBS	
				7 = B328PF			7 = EDBS	
				8 = DS222P			8 = CP4-HW-OT	
				9 = V222PC			9 = CDC	
				A = DS228P				

Iconography

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

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

A17

A27-HW

R17 V2

R27 V2

PROGRAMMERS

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

ESBE®

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FantiniCosmi

SAUTER
Creating Sustainable Environments.

Commercial Controls

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)

ESBE

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

ESBE

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

ESBE

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
CRA125	230V / 24V=/~	120s	15Nm
CRA215	230V ~	30s	6Nm

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

PRODUCT CODE	POWER SUPPLY	RUN TIME	TORQUE
CRC115	230V~	30s	6Nm
CRC125	230V / 24V=/~	120s	15Nm

TEMPERATURE RANGE	IP RATING	AMBIENT TEMPERATURE
5 ... 95°C	IP41	-5 ... 55˚C

Load Valves, Diverter Valves & Solenoid Valves

Load Valves

ESBE

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

ESBE

PRODUCT CODE	CONNECTION	FLOW RATE	MAX. TEMP °C
VZD263-43080800	28mm Compression	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

Servo Assisted Solenoid Valves - Normally closed

Suitable for diesel; Connection: Female BSP
Suitable for: Water / Oil / Inert Gas +Diesel

PRODUCT CODE	VALVE SIZE	FLOW RATE	MAX DIFFERENTIAL	MAX. PRESSURE
M23C13	DN10	3.0 Kvs	20 Bar	PN25
M23D13	DN15	3.0 Kvs	20 Bar	PN25
M23E20	DN20	8.4 Kvs	20 Bar	PN25
M23F25	DN25	9.6 Kvs	20 Bar	PN25
M23G35	DN32	25.2 Kvs	10 Bar	PN16
M23H40	DN40	30 Kvs	10 Bar	PN16
M23I50	DN50	37.2 Kvs	10 Bar	PN16

TEMPERATURE RANGE	IP RATING	MINIMUM DIFFERENTIAL PRESSURE
-10...90°C	IP65	0.1Bar

Accessories

ACCESSORIES CODE	DESCRIPTION	FOR PRODUCT CODE
1578602	Diaphragm	M23C13 - M23D13
1578603	Diaphragm	M23E20 - M23F25
1578604	Diaphragm	M23G35 - M23H40
1578605	Diaphragm	M23I50

FantiniCosmi

Servo Assisted Solenoid Valves – Normally open

Suitable for diesel
Connection: Female BSP
Suitable for: Water / Oil / Inert Gas +Diesel

FantiniCosmi

PRODUCT CODE	VALVE SIZE	FLOW RATE	MAX DIFFERENTIAL	MAX. PRESSURE
M29D13	DN15	3.0 Kvs	20 Bar	PN25
M29E20	DN20	8.4 Kvs	20 Bar	PN25
M29F25	DN25	9.6 Kvs	20 Bar	PN25
M29G35	DN32	25.2 Kvs	10 Bar	PN16
M29H40	DN40	30 Kvs	10 Bar	PN16
M29I50	DN50	37.2 Kvs	10 Bar	PN16

TEMPERATURE RANGE	IP RATING	MINIMUM DIFFERENTIAL PRESSURE
-10...90°C	IP65	0.1Bar

Direct Acting Solenoid Valves

Normally closed; Connection: Female BSP
Suitable for: Water / Oil / Inert Gas +Diesel

FantiniCosmi

PRODUCT CODE	VALVE SIZE	FLOW RATE	MAX DIFFERENTIAL	MAX. PRESSURE
M20D5	DN15	0.6 Kvs	6 Bar	IP65
M20E7	DN20	1.0 Kvs	2.5 Bar	IP65

TEMPERATURE RANGE	IP RATING	MINIMUM DIFFERENTIAL PRESSURE
-10...140°C	IP65	0Bar

Coils & Connector

PRODUCT CODE	POWER SUPPLY	ACTIVE POWER	FOR PRODUCT CODE
IM21D	12V~	9W	M20 / M23
IM21F	24V~	9W	M20 / M23
IM21H	110...115V~	9W	M20 / M23
IM21M	230V~	9W	M20 / M23
IM22	24V=	12W	M20 / M23
IM22A	12V=	14W	M20 / M23
IM29F	24V~	14W	M29
IM29M	230V~	14W	M29

Accessories

ACCESSORIES CODE	DESCRIPTION	FOR PRODUCT CODE
1578501	Connector for coils	IM2_

FantiniCosmi

Gas Detection

Gas Detectors with Fixed Sensor

Optical Alarm: Acoustic Alarm
Relay 2.5(1.2)A

PRODUCT CODE	GAS TYPE	POWER SUPPLY	DETECTOR TYPE
Gamma 652-O/M	Natural Gas	230Vac	Standalone
Gamma 652-O/G	LPG	230Vac	Standalone
Beta 760-CO	Carbon Monoxide	230Vac	Standalone

IP RATING	SOUND LEVEL	ALARM LEVEL
IP42	85 dB	10% LEL

Gas Valve - Normally closed

Auto reset
Fast opening

PRODUCT CODE	VALVE SIZE	CONNECTION	FLOW RATE
AV015FO	DN15	1/2" BSP	11 Kvs
AV020FO	DN20	3/4" BSP	22 Kvs
AV025FO	DN25	1" BSP	23 Kvs
AV032FO	DN32	1 1/4" BSP	56 Kvs
AV040FO	DN40	1 1/2" BSP	68 Kvs
AV050FO	DN50	2" BSP	89 Kvs
AVD65FO	DN65	2 1/2" Flanged	114 Kvs

Accessories

ACCESSORIES CODE	DESCRIPTION
21802429	Connector for Geca gas valves
80521593	Coil for DN32 & DN40 gas valves
80521594	Coil for DN50 gas valves

MAX. PRESSURE	IP RATING	AMBIENT TEMPERATURE	SUPPLY VOLTAGE
360mbar	IP65	-20 ... 60°C	230Vac

Control Units Flammable Gas

PRODUCT CODE	NUMBER OF ZONES	ALARM LEVEL
CTM21	1 Zone	10% & 20% LEL

IP RATING	POWER SUPPLY	CONTACT RATING
IP65	230Vac	3A

Control Units Flammable & Toxic Gas

PRODUCT CODE	NUMBER OF ZONES	ALARM LEVEL
CTP25	3 Zone	0-20% LEL - 0-100% LEL and 300PPM
CTP26	4 Zones	0-20% LEL - 0-100% LEL and 300PPM

IP RATING	POWER SUPPLY	CONTACT RATING
IP65	230Vac	3A

Detectors for Control Units Flammable Gas

PRODUCT CODE	DESCRIPTION	FOR PRODUCT CODE
ST441M	Natural gas detector	CTM21 / CTP21 / CTP25 / CTP26
ST441G	LPG detector	CTM21 / CTP21 / CTP25 / CTP26

IP RATING	POWER SUPPLY
IP44	12-24V dc from CTP21 / CTM21 / CTP25 / CTP26

Dectector for Control Units Toxic Gas

PRODUCT CODE	DESCRIPTION	FOR PRODUCT CODE
ST441EC	Carbon Monoxide detector	CTP25 / CTP26

IP RATING	POWER SUPPLY
IP65	12-24V dc from CTP25 / CTP26

Accessories

ACCESSORIES	DESCRIPTION
ESB	Emergency Stop Button
SE301A	Acoustic and Visual Siren, Sound 115dB, IP43, Power supply 230Vac

Commercial Thermostats & Switches

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

FantiniCosmi

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

SAUTER

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

SAUTER

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

EPH CONTROLS

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

SAUTER

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

SAUTER

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

SAUTER

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

Unit Valves & Actuators Continued

Motor Driven Actuators

for VUA, VUL, & BUL Unit Valves

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

SAUTER

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

SAUTER

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

EPH CONTROLS

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

2 Port Lift & Lay Valves c/w Unions

SAUTER

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

SAUTER

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

SAUTER

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

Ball valves & Actuators

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

SAUTER

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

SAUTER

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

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

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

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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

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

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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

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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

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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

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

Actuators with 20mm Stroke

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

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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

SAUTER

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

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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

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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

Actuators for DEF Valves, Spring Return

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

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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

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

3 Port Mixing Valves

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

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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

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

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Accessories

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..
0378133025	Threaded Sleeve with cap, nut and flat seal	VDL025F2..
0361951025*	Screw Fitting for male thread with flat seal, DN25	VDL032F2..

* 0361951025 is the only fitting for a VDL032F2.. and brings the connection to DN25.

Actuators for PIC Valves, DN10 – DN32

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

Thermal Drive Spring Return
For: VDL010...032
* 0-10V Control Signal
ΔP Max 8.0 Bar for VDL010-032

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

Motor Drive
For: VDL010...032
* 0(2)-10V/0(4)-20mA Control Signal
ΔP Max 8.0 Bar for VCL010-032

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PIC Valves, DN40 – DN50 with Measurement Nipples

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

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Actuators for PIC Valves, DN40 – DN50

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	
AVM215SF132-7	24V	7.5 / 15 s/mm	Modulating	20mm

* 0-10V Control Signal

AMBIENT TEMPERATURE	IP RATING	STROKE	ΔP MAX
-10 ... 55°C	IP54	8 ... 20mm	4.0 Bar

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Accessories

ACCESSORIES CODE	DESCRIPTION	FOR PRODUCT CODE
0510390029	Adapter to fit AVM215	VDL040...050

PIC Valves, DN65 – DN100 with Measurement Nipples

PRODUCT CODE	VALVE SIZE	FLOW RATE	STROKE (MM)	CONTROL RANGE (MIN MAX ΔP)
VDL065F501H	DN65	6.4... 37.7 m^3/h	20	30...600 kPa
VDL080F501H	DN80	8.5... 49 m^3/h	20	22...600 kPa
VDL100F501H	DN100	14.8... 90.9m^3/h	40	20...600 kPa

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TEMPERATURE RANGE	PN RATING	VALVE CHARACTERISTIC
1... 120°C	PN16	Linear

Actuators for PIC Valves, DN65 – DN150

PRODUCT CODE	POWER SUPPLY	RUNNING TIME	ACTUATOR TYPE	PUSHING FORCE
AVM234SF132-7	24V=/~ *	2 / 4 / 6 s/mm	Modulating or 2 / 3 Pt	2500N

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

AMBIENT TEMPERATURE	IP RATING	STROKE
-10 ... 55°C	IP66	40mm

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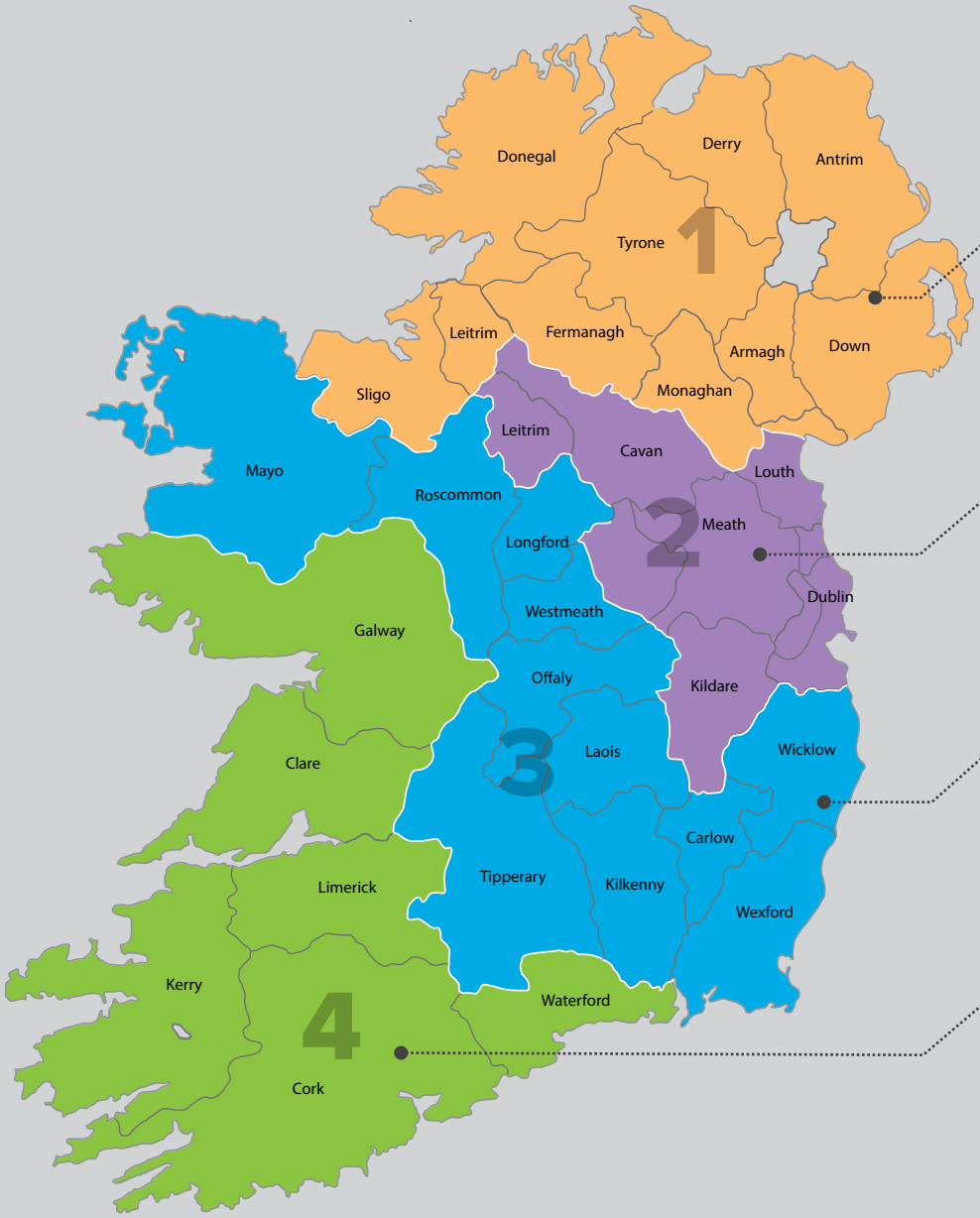

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2025-10-16_AW1100_PK

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