

The Siemens logo is displayed in a white rectangular box in the top left corner of the page. The background of the entire page is a photograph of a modern shopping mall with a large, white, undulating ceiling and blue-tinted glass walls. Overlaid on the left side of the image is a vertical column of binary code (0s and 1s) and various icons representing different building systems: a lightbulb, a sun, a snowflake, a thermometer, and a hand pointing at a screen.

SIEMENS

STANDARD kontrollerid

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- Overview and selection tools
- Standalone heating controllers
- Communicating heating controllers
- Standalone district heating controllers
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- Various electrical accessories

Type Overview

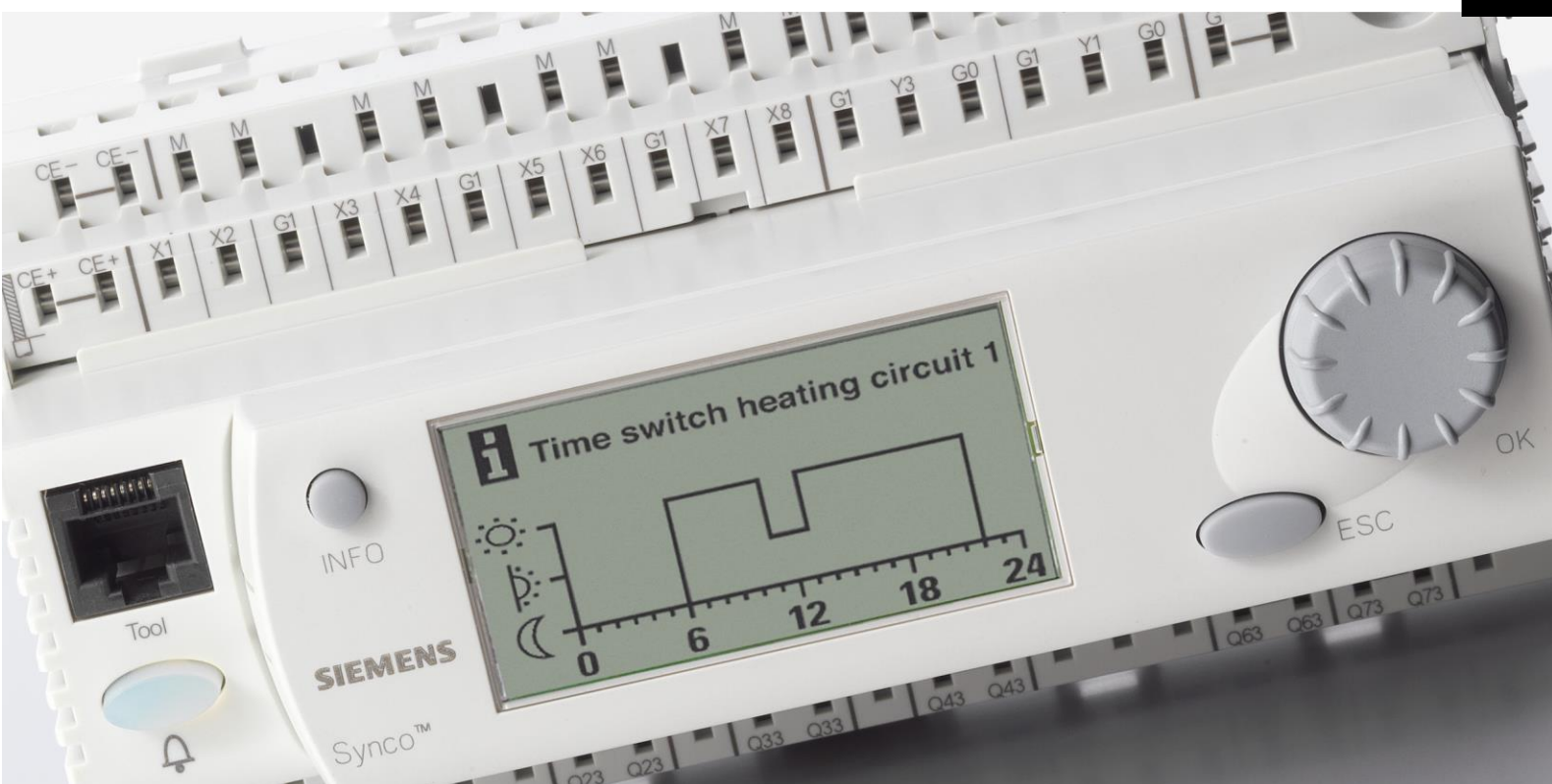
Product no.	Product Title	Data sheet	Price (€)	Page
ALT-SB150	Protection pocket, 150 mm, MS63 nickel-plated, G½", PN10, LW7	N1194	18.60	15
AQR2531ANW	Front module with passiv temperature measurement, LG-Ni1000	N1408	53.45	29
AQR2532NNW	Front module for base modules, temperature (active)	N1411	46.77	29
ARG62.201	Front panel mounting frame	N3101	49.01	38
AUZ3.1	Analog 24-hour time switch	N2464	64.48	11
AUZ3.7	Analog 7-day time switch	N2464	73.45	11
BAU200	Universal digital indicator	N5312	352.30	53
BSG21.1	Setpoint adjuster, passive, scale 0...50 °C (exchangeable)	N1991	73.06	52
BSG21.5	Setpoint adjuster, passive, temperature ranges: -20...20 °C; 20...60 °C; -3...3 K	N1991	77.87	52
BSG61	Active setpoint adjuster 0... 100 %, for flush panel mounting	N1992	91.00	52
FGT-PT1000	Flue gas temperature sensor Pt1000	N1846	576.40	29
OCI700.1	Service tool for KNX / LPB	N5655	904.80	29
OCI702	USB - KNX Service interface	A6V10438951	540.80	29
QAA24	Room temperature sensor LG-Ni1000	N1721	51.35	29
QAA25	Room unit with room temperature sensor and setpoint adjuster	N1721	116.59	36
QAA27	Room unit with room temperature sensor and setpoint readjuster - 3...3 K	N1721	116.59	29
QAA50.110/101	Room unit with PPS interface	N2281	109.00	21
QAC22	Outside sensor LG-Ni1000	N1811	41.27	15
QAC3161	Outside/room temperature sensor DC 0...10 V	N1814	146.72	35
QAC32	Outside sensor NTC 575 Ohm	N1811	60.26	29
QAD22	Strap-on temperature sensor LG-Ni1000	N1801	47.82	13
QAD26.220	Strap-on temperature sensor with cable LG-Ni1000	N1802	50.04	29
QAE2120.010	Immersion temperature sensor 100 mm LG-Ni1000, with protection pocket	N1781	95.76	13
QAE2120.015	Immersion temperature sensor 150 mm, LG-Ni1000, with protection pocket	N1781	100.87	35
QAE2121.010	Immersion temperature sensor 100 mm, LG-Ni1000, without protection pocket	N1781	76.37	13
QAE2121.015	Immersion temperature sensor 150 mm LG-Ni1000, without protection pocket	N1781	81.22	46
QAE2164.010	Immersion temperature sensor 100 mm DC 0...10 V	N1782	186.02	35
QAE2164.015	Immersion temperature sensor 150 mm DC 0...10 V	N1782	195.19	35
QAE26.9	Immersion temperature sensor Ø 6 mm with cable and fitting	N1790	110.96	35
QAF65.6M-J	Frost monitor, 2-point, capillary tube 6000 mm, -10...+15 °C	A6V11965899	183.40	35
QAM2112.040	Duct temperature sensor 400 mm, Pt1000	N1761	79.12	35
QAM2120.040	Duct temperature sensor 400 mm, LG-Ni1000	N1761	89.74	35
QAM2120.200	Duct temperature sensor 2000 mm, LG-Ni1000	N1761	168.99	35
QAM2120.600	Duct temperature sensor 6000 mm, LG-Ni1000	N1761	260.69	35
QAP21.2	Cable temperature sensor for high-temperature applications (180 °C)	N1833	74.67	13
QAP21.3	Cable temperature sensor silicone 1.5 m, LG-Ni1000	N1831	58.56	33
QAP22	Cable temperature sensor PVC 2 m, LG-Ni1000	N1831	26.59	29
QAT22	Window pane temperature sensor	N1830	175.54	35
QAW70-A	Multifunctional room unit, instructions in en, de, fr, it	N1637	378.30	21
QAW740	Room unit with KNX bus	N1633	230.10	24
QFA1000	Room hygrostat, setpoint setting range 30...90 % r.h., setpoint adjuster inside device	N1518	99.56	35
QFA1001	Room hygrostat, setpoint setting range 30...90 % r.h., external setpoint adjustment	N1518	101.26	35
QFA2000	Room sensor for humidity (DC 0...10 V)	N1857	256.76	36
QFA2020	Room sensor for humidity (DC 0...10 V) and temperature (LG-Ni1000)	N1857	263.31	36
QFA2060	Room sensor for humidity (DC 0...10 V) and temperature (DC 0...10 V)	N1857	271.17	36
QFA3100	Room sensor for humidity (DC 0...10 V) for demanding requirements	N1858	398.24	36

Product no.	Product Title	Data sheet	Price (€)	Page
QFA3160	Room sensor for humidity (DC 0...10 V) and temperature (DC 0...10 V) for demanding requirements	N1858	420.51	36
QFA4160	Room sensor for humidity (DC 0...10 V) and temperature (DC 0...10 V) with calibration certificate	N1859	1152.80	36
QFM2100	Duct sensor for humidity (DC 0...10 V)	N1864	269.86	35
QFM2120	Duct sensor for humidity (DC 0...10 V) and temperature (Ni1000)	N1864	298.68	35
QFM2160	Duct sensor for humidity (DC 0...10 V) and temperature (DC 0...10 V)	N1864	282.96	35
QFM3100	Duct sensor for humidity (DC 0...10 V) for demanding requirements	N1882	398.24	35
QFM3160	Duct sensor for humidity (DC 0...10 V) and temperature (DC 0...10 V) for demanding requirements	N1882	420.51	35
QFM4160	Duct sensor for humidity (DC 0...10 V) and temperature (DC 0...10 V) with calibration certificate	N1883	1152.80	35
QFM81.2	Duct hygrostat, setpoint setting range 15...95 % r.h.	N1514	243.66	35
QFM81.21	Room hygrostat, setpoint setting range 15...95 % r.h., setpoint adjuster inside device	N1514	322.26	35
QLS60	Solar sensor	N1943	730.98	29
QMX3.P30	Room sensor KNX for temperature, white	N1602	110.25	29
QMX3.P40	Room sensor KNX for temperature and humidity, white	N1602	140.00	47
QMX3.P70	Room sensor KNX for temperature, humidity, CO2, white	N1602	522.50	47
QPA84	Indoor air quality controller with integrated VOC sensor for mixed gas	N1571	163.75	36
QVE1900	Flow switch for use in hydraulic systems, PN10, DN32...200	N1592	203.05	29
QVE1901	Flow switch for use in hydraulic systems, PN25, DN20...200	N1594	162.44	29
QVM62.1	Duct sensor for air velocity	N1932	378.59	35
RLA162	Room temperature controller, AC 24 V, 2 outputs DC 0...10 V	N3331	200.43	37
RLE132	Immersion temperature controller, AC 230 V, 3-position output	N3334	465.40	15
RLE162	Immersion temperature controller, AC 24 V, DC 0...10 V output	N3333	404.30	14
RLM162	Air duct temperature controller, AC 24 V, 2 outputs DC 0...10 V	N3332	319.80	34
RLU202	Universal controller, 1 control loop, 2 relay outputs	N3101	425.10	38
RLU220	Universal controller, 1 control loop, 2 analog outputs	N3101	425.10	38
RLU222	Universal controller, 2 control loops, 2 analog and 2 relay outputs	N3101	543.40	38
RLU232	Universal controller, 2 control loops, 3 analog and 2 relay outputs	N3101	747.50	38
RLU236	Universal controller, 2 control loops, 3 analog and 6 relay outputs	N3101	1014.00	38
RMH760B-1	Heating controller	N3133	916.50	22
RMK770-1	Boiler sequence controller	N3132	1456.00	23
RMS705B-1	Switching and monitoring device	N3124	1072.50	42
RMU710B-1	Universal controller, 1 control loop	N3150	754.00	41
RMU720B-1	Universal controller, 2 control loops	N3150	1086.80	41
RMU730B-1	Universal controller, 3 control loops	N3150	1443.00	41
RMZ780	Module connector	N3138	193.70	25
RMZ782B	Heating circuit module	N3136	412.10	26
RMZ783B	DHW module	N3136	440.70	27
RMZ785	Universal module (8UI)	N3146	339.30	28
RMZ787	Universal module (4UI, 4DO)	N3146	339.30	28
RMZ788	Universal module (4UI, 2AO, 2DO)	N3146	482.30	28
RMZ789	Universal module (6UI, 2AO, 4DO)	N3146	581.10	28
RMZ790	Plug-in type operator unit	N3111	288.60	24
RMZ791	Detached operator unit with 3 m cable	N3112	431.60	24
RMZ792	Bus operator unit	N3113	1194.70	25
RVD120-A	Controller, 3 programmed plant types, instructions in da, de, en, fi, fr, it, sv	N2510	582.40	30
RVD140-A	Controller, 8 programmed plant types, instructions in da, de, en, fi, fr, it, sv	N2510	755.30	31
RVD250-A	Controller, 28 programmed plant types, instructions in de, en, fr, it, da, fi, sv	N2513	817.70	32

Type Overview

Product no.	Product Title	Data sheet	Price (€)	Page
RVD260-A	Controller, 14 programmed plant types, instructions in de, en, fr, it, da, fi, sv	N2515	906.10	33
RVL480	Heating controller for 1 heating circuit or boiler temperature control	N2540	1185.60	19
RVL482	Heating controller for boiler temperature control for modulating or 2-stage burners with d.h.w. heating	N2542	1586.00	20
RVP201.0	Heating controller without timeswitch	N2464	611.00	11
RVP211.0	Heating controller without timeswitch, with d.h.w. heating	N2464	705.90	12
RVP340	Heating controller for 1 heating circuit	N2545	686.40	16
RVP350	Heating controller for 1 heating circuit and d.h.w.	N2545	908.70	17
RVP360	Heating controller for 2 heating circuits and d.h.w.	N2546	1092.00	18
RWD62/CN			295.10	39
RWD68	Universal controller, AC 24 V, 1 modulating and 1 2-point output	N3343	217.10	40
RWD68/CN			286.00	39
RWD82	Universal controller, AC 24 V, with 2 relay outputs	N3341	239.20	40
SEA45.5	Current valve	N4938	221.00	49
SEH62.1	Digital time switch, 1-channel, with 7-day program	N5243	84.63	54
SEM61.4	Signal converter DC 0...10 V or DC 0 / 10 V in AC 0 / 24 V	N5102	179.40	49
SEM62.1	Transformer	N5536	47.19	55
SEM62.2	Transformer with switch and replaceable fuse	N5536	54.99	55
SEZ220	Signal converter with preprogrammed applications	N5146	439.40	50
SEZ91.6	Signal converter DC 0...20 V Phs to DC 0...10 V	N5143	119.73	50
UA1T	Power amplifier for thermal actuators AC 24 V, PWM	N3591	97.89	51

Standard controllers



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Standard controllers

Overview and selection tools

Overview of heating controllers product details



Preferential applications	RLE..		RVP..		RVP..			RVL..				RMH..	RMK..
	132	162	201	211	340	350	360	479	480	481	482	760B	770
Heating group	■	■	■	■	■	■	■		■	■	■	■	■
Boiler control	1-stage 2-stage		■	■								■	■
						■	■		■	■	■	■	■
Multi-boiler system													■
Domestic hot water	■	■		■		■	■			■	■	■	
Domestic water solar						■	■			■	■	■	
2nd heating group							■	■				■	
3rd heating group												■	

Operation system		RLE..		RVP..		RVP..			RVL..				RMH..	RMK..
		132	162	201	211	340	350	360	479	480	481	482	760B	770
Type of operation	analog	■	■	■	■				■	■	■	■	■	■
	digital					■	■	■						
Heating curve bar									■	■	■	■		
Time switch	analog			■	■									
	digital			1)	1)	■	■	■	■	■	■	■	■	■
Programmed plant types		6	3			2	3	6	1	6	29	21	41	18
Yearly clock						■	■	■	■	■	■	■	■	■

¹⁾ Variant

	RLE..		RVP..		RVP..			RVL..				RMH..	RMK..
Communication	132	162	201	211	340	350	360	479	480	481	482	760B	770
Controller network					LPB	LPB	LPB	LPB	LPB	LPB	LPB	KNX	KNX
Web operation					OZW672..		OZW 672..	OZW672..				OZW772..	

Sensors		RLE..		RVP..		RVP..			RVL..				RMH..	RMK..
		132	162	201	211	340	350	360	479	480	481	482	760B	770
Outside sensor	QAC22	■	■	■	■	■	■	■	■	■	■	■	■	■
Outside sensor	QAC32			■	■	■	■	■	■	■	■	■	■	■
Strap-on temp. sensor	QAD22			■	■	■	■	■	■	■	■	■	■	■
Immersion temp. sensor	QAE2..			■	■	■	■	■	■	■	■	■	■	■
Cable temp. sensor	QAP2..			■	■	■	■	■	■	■	■	■	■	■
Room temp. sensor	QAA24					■	■	■	■	■	■	■	■	■
Room temp. sensor	¹⁾					■	■	■	■	■	■	■	■	■
Solar sensor	QLS60										■	■		

¹⁾ AQR2531..NW

Room units	RLE..		RVP..		RVP..			RVL..				RMH..	RMK..
	132	162	201	211	340	350	360	479	480	481	482	760B	770
Room unit QAA50.110/101 analog			■	■	■	■	■	■	■	■	■		
Room unit digital QAW70..			■	■	■	■	■	■	■	■	■		
Room unit digital QAW740												■	■

Overview of district heating controllers product details



Preferential applications	RVD120	RVD140	RVD250	RVD260	RVP340	RVL480	RVL481	RMH760B
Heating group	■	■	■	■	■	■	■	■
District heat exchanger	■	■	■	■	1)	1)	1)	■
Domestic hot water	■	■	■	■			■	■
Domestic water solar		■	■	■			■	■
2nd heating group				■				■
3rd heating group								■

¹⁾ Variant: For the description of the controllers see chapter 1 „Communicative heating controllers“.

Operation system	RVD120	RVD140	RVD250	RVD260	RVP340	RVL480	RVL481	RMH760B
Type of operation								
analog	■	■	■	■	■	■	■	■
digital								
Heating curve bar						■	■	
Time switch								
analog								
digital	■	■	■	■	■	■	■	■
Programmed plant types	3	8	28	14	2	6	29	41
Yearly clock	■	■	■	■	■	■	■	■

Communication	RVD120	RVD140	RVD250	RVD260	RVP340	RVL480	RVL481	RMH760B
Controller network			LPB	LPB	LPB	LPB	LPB	KNX
M-bus slave			■	■				
Web operation	ext. Modbus-Interface	ext. Modbus-Interface	OZW672..		OZW672..	OZW672..		OZW772..

Sensors	RVD120	RVD140	RVD250	RVD260	RVP340	RVL480	RVL481	RMH760B
Outside sensor QAC22	■	■	■	■	■	■	■	■
Outside sensor QAC32	■	■	■	■	■	■	■	■
Strap-on temp. sensor QAD22	■	■	■	■	■	■	■	■
Immersion temp. sensor QAE2..	■	■	■	■	■	■	■	■
Cable temp. sensor QAP2..	■	■	■	■	■	■	■	■
Room temp. sensor QAA24					■	■	■	■
Room temp. sensor ¹⁾					■	■	■	■
Solar sensor QLS60								■
Pressure sensor QBE2002..		■	■	■				

¹⁾ AQR2531..NW

Room units	RVD120	RVD140	RVD250	RVD260	RVP340	RVL480	RVL481	RMH760B
Room unit QAA50.110/101 analog	■	■	■	■	■	■	■	
Room unit digital QAW70..	■	■	■	■	■	■	■	
Room unit digital QAW740								■

Standard controllers

Overview and selection tools

Overview of HVAC controllers product details



	RLM.. 162	RLA.. 162	RWD.. 82 62 68			RLU.. 202 220 222 232 236					RMU.. 710B 720B 730B			RMS.. 705B 785		RMZ 787 788	
	Air duct temperature controller	Room temperature controller	Universal controller, 1 control loop, 2DO	Universal controller, 1 control loop, 2AO	Universal controller, 1 control loop, 1AO, 1DO	Universal controller, 1 control loop, 2DO	Universal controller, 1 control loop, 2AO	Universal controller, 2 control loops, 2AO, 2DO	Universal controller, 2 control loops, 3AO, 2DO	Universal controller, 2 control loops, 3AO, 6DO	Modular universal controller, 1 control loop	Modular universal controller, 2 control loops	Modular universal controller, 3 control loops	Switching and Monitoring Device	Universal module, 8UI	Universal module, 4UI, 4DO	Universal module, 4UI, 2DO, 2AO
Option modules for RMU7..0B and RMS705B											4 ²⁾	4 ²⁾	4 ²⁾	4 ²⁾	1 ²⁾	2 ²⁾	2 ²⁾
Operation	■	■	■	■	■	■	■	■	■	■	■ ¹⁾	■ ¹⁾	■ ¹⁾	■ ¹⁾			
KNX communication											■	■	■	■			
7-day time switch and holiday/ special day program											■	■	■	■			
Supervision											■	■	■	■			
Logic functions											■	■	■	■			

Outputs

Step switch						■		■	■	■	■	■	■	■			
Relay	1	1	2		1	2		2	2	6	2	4	6	6		4	2
3-position			1 ³⁾			1 ³⁾		1 ³⁾									
DC 0...10 V	2	2		2	1		2	2	3	3	2	3	4	4			2

Universal inputs

T1						■	■	■	■	■	■	■	■	■	■	■	■
Pt1000			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
DC 0...10 V			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Digital						■	■	■	■	■	■	■	■	■	■	■	■
LG-Ni 1000			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Number of universal inputs	-	-	2	2	2	4	4	4	5	5	6	8	8	8	8	4	4

Fixed inputs

DC 0...10 V	1	1															
Digital	2	1	1	1	1	1	1	1	2	2							
LG-Ni 1000	1	1															
Integrated LG-Ni 1000 sensor	1	1															

Controlled variable

Universal			■	■	■	■	■	■	■	■	■	■	■	■			
Temperature °C	■	■	■	■	■	■	■	■	■	■	■	■	■	■			

Control mode

PID						■	■	■	■	■	■	■	■	■			
P/I	■	■	■	■	■	■	■	■	■	■	■	■	■	■			

Control loops

Cascade			■	■	■	■	■	■	■	■	■	■	■	■			
Number	1	1	1	1	1	1	1	2	2	2	1	2	3	3			

■ ¹⁾ Optional operation:
 RMZ790: Plug-in operator unit
 RMZ791: Detached operator unit
 RMZ792: Bus operator unit

²⁾ Maximum number of option modules
 RMZ78x per controller
³⁾ 2 Relays or one 3-position

AO Analog output
 DO Digital output
 UI Universal inputs

Standard controllers

Standalone heating controllers

Heating controller RVP2..

Accessories for RVP2..

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Analog 24-hour time switch	N2464	BPZ:AUZ3.1	AUZ3.1	64.48
Analog 7-day time switch	N2464	BPZ:AUZ3.7	AUZ3.7	73.45

Heating controller with analog operating elements

##N/A Master

Heating controllers for use in residential or smaller commercial buildings that have their own heat generation. Easy-to-understand analog operating elements for the enduser.

Key functions

Weather-compensated flow or boiler temperature control, with or without room influence or room temperature control. Control of 3- or 2-position actuators or direct control of a burner.



Additional settings

- Control of the heating pump
- Quick setback and boost heating
- Heating curve
- Room temperature influence
- Frost protection for the plant and the room
- Automatic ECO function for switching the heating system on and off depending on demand
- Maximum limitation of the flow or boiler temperature
- Pump overrun and pump kick
- Remote switching of operating mode via room unit or external switch

Operating modes

The following operating modes can be selected with the slider: Automatic/Protection, Automatic/Reduced, Setback, Normal operation and Protection.

Data sheet	N2464
Operating voltage	AC 230 V
Frequency	50 Hz
Power consumption	7 VA
Analog input, signal	LG-Ni1000
	NTC 575
Relay output, switching voltage	AC 24...230 V
Relay output, switching current	2 A
Degree of protection	IP40
Dimensions (W x H x D)	144 x 96 x 115 mm

Range overview RVP201..

Product Title	Stock no.	Product no.	Price (€)
Heating controller without time switch	BPZ:RVP201.0	RVP201.0	611.00

Standard controllers

Standalone heating controllers

Heating controller RVP2..

RVP211..

Heating controller incl. DHW heating



Heating controller for use in residential or smaller commercial buildings that have their own heat generation and own DHW heating. Easy-to-understand analog operating elements for the enduser.

Key functions (same as RVP201)

Other settings (same as RVP201)

DHW heating functions

- Storage tank charging by control of a charging pump:
 - Absolute priority: Heating circuit pump remains locked during DHW charging
 - No priority (parallel): Heating circuit pump and DHW charging pump operate parallel
- Storage tank charging by control of a diverting valve
- Frost protection for DHW
- DHW temperature can be acquired via a temperature sensor or thermostat

Operating modes

The following operating modes can be selected with the slider: Automatic/Protection, Automatic/Reduced, Setback, Normal operation, Protection, or DHW heating only.

Data sheet	N2464
Operating voltage	AC 230 V
Frequency	50 Hz
Power consumption	7 VA
Analog input, signal	LG-Ni1000
	NTC 575
Relay output, switching voltage	AC 24...230 V
Relay output, switching current	2 A
Degree of protection	IP40
Dimensions (W x H x D)	144 × 96 × 115 mm

Range overview RVP211..

Product Title	Stock no.	Product no.	Price (€)
Heating controller without time switch, with d.h.w. heating	BPZ:RVP211.0	RVP211.0	705.90

Standard controllers
Standalone heating controllers
Immersion temperature controllers RLE..

Accessories for RLE127

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Immersion temperature sensor, passive	N1781	BPZ:QAE21..	QAE21..	
Strap-on temperature sensor LG-Ni1000	N1801	BPZ:QAD22	QAD22	47.82
Immersion temperature sensor 100 mm LG-Ni1000, with protection pocket	N1781	BPZ:QAE2120.010	QAE2120.010	95.76
Immersion temperature sensor 100 mm, LG-Ni1000, without protection pocket	N1781	BPZ:QAE2121.010	QAE2121.010	76.37
Cable temperature sensor for high-temperature applications (180°C)	N1833	BPZ:QAP21.2	QAP21.2	74.67
Setpoint adjuster, passive, scale 0...50 °C (exchangeable)	N1991	BPZ:BSG21.1	BSG21.1	73.06

Standard controllers

Standalone heating controllers

Immersion temperature controllers RLE..

RLE162



Immersion temperature controller, AC 24 V, DC 0...10 V output

Compact electronic controller with immersion type temperature sensor and setting unit combined in one device. It is designed for installation directly onto the plant. Only the wires for power supply connection and controller output need to be laid. Threaded nipple (AQE2102) for direct temperature comes with the product RLE162.

Applications:

Modulating temperature controller, with 1 or 2 continuous DC 0...10 V output signals and auxiliary relay. The RLE162 is used for control and limiting of temperature in hot water, heating or cooling plants:

- Domestic hot water temperature
- Heating flow temperature
- Closed circuit heat exchangers
- Water-side control of HVAC units
- Chilled water temperature

Features:

- High or low temperature limitation
- Auxiliary digital output
- Compensation via outside sensor
- Connection for remote setting unit
- P or PI control (selectable)
- Service modes
- Heating and cooling modes available
- Setpoint changeover via external contact or time switch
- Optional legionella function

Data sheet	N3333
Operating voltage	AC 24 V
Frequency	50/60 Hz
Power consumption	2 VA
Setpoint readjustment range	0...60 K
Setpoint setting range	-10...130 °C
Analog output, signal	DC 0...10 V
Analog output, current	Max. 1 mA
Analog input, signal	LG-Ni1000
	0...1000 Ohm
	DC 0...10 V
Analog outputs, number	2
Digital inputs	Potential-free input signal
Digital input, contact query	DC 3...6 mA
	DC 6...15 V
Relay outputs	N.O. contact, potential-free
Relay output, switching voltage	AC 24...230 V
Relay output, switching current	2 A
Immersion length	130 mm
PN class	PN 10
Degree of protection	IP65
Dimensions (W x H x D)	125 x 152 x 78 mm

	Stock no.	Product no.	Price (€)
	BPZ:RLE162	RLE162	404.30

Standard controllers

Standalone heating controllers

Immersion temperature controllers RLE..

Immersion temperature controller, AC 230 V, 3-position output

RLE132

Compact electronic controller with immersion type temperature sensor and setting unit combined in one device. It is designed for installation directly onto the plant. Only the wires for mains connection and controller output need to be laid. Supplied with protection pocket for indirect temperature sensing.



Application:

Modulating temperature controller, with 3-position control signal and auxiliary relay. The RLE132 is ideally suited for control of the following heating plants:

- Domestic hot water temperature
- Flow temperature control
- Calorifiers or heat exchangers

Features:

- Values for both normal and reduced temperature can be set
- Setpoint changeover via external contact or time switch
- Optional legionella function
- Auxiliary digital output for heat demand
- Connection for remote setting unit
- Minimum limitation of boiler return temperature
- Minimum or maximum limitation of the return temperature
- PI control (selectable)
- Service mode

Data sheet	N3334
Operating voltage	AC 230 V
Frequency	50/60 Hz
Power consumption	4 VA
Setpoint setting range	0...130 °C
Setpoint readjustment range	0...50 K
Digital input, contact query	DC 3...6 mA
	DC 6...15 V
Relay outputs	N.O. contact, potential-free
Relay output, switching voltage	AC 24...250 V
Relay output, switching current	2 A
PN class	PN 10
Immersion length	150 mm
Degree of protection	IP65
Dimensions (W x H x D)	125 x 152 x 78 mm

	Stock no.	Product no.	Price (€)
	BPZ:RLE132	RLE132	465.40

Accessories for RLE132 / RLE162

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Protection pocket, 150 mm, MS63 nickel-plated, G½", PN10, LW7	N1194	BPZ:ALT-SB150	ALT-SB150	18.60
Outside sensor LG-Ni1000	N1811	BPZ:QAC22	QAC22	41.27
Setpoint adjuster, passive, scale 0...50 °C (exchangeable)	N1991	BPZ:BSG21.1	BSG21.1	73.06

Standard controllers

Communicating heating controllers

Heating controller RVP3..

RVP340



Heating controller for 1 heating circuit

Weather-compensated flow temperature control of heating circuit with or without room influence.

Key functions:

- 2 preprogrammed plant types can be selected, with automatic assignment of the functions required for each plant type
- Weather-compensated flow temperature control through control of valve (mixing) in a heating circuit
- Weather-compensated flow temperature control through control of the 2-port valve in the primary return of a heating circuit with district heat connection (substation)

Additional functions

The RVP340 provides the following functions (no submodules or extra devices required):

- Optimum start/ stop
- Quick setback and boost heating
- Automatic ECO function, depending on the outside temperature and the type of building construction
- One 7-day program with 3 heating periods per day
- Yearly time program for holidays
- Digital setting of the heating curve
- Pump kick and pump overrun
- Minimum and maximum limitation of the flow temperature
- Multifunctional outputs
- Digital input for remote control of operating mode
- Communication with other controllers via LPB data bus (RVP3.., RVL4.. and RVD2..)

Data sheet	N2545
Operating voltage	AC 230 V
Frequency	50 Hz
Power consumption	6 VA
Analog input, signal	LG-Ni1000
	NTC 575
Digital inputs	Status contact
Relay output, switching voltage	AC 24...230 V
Relay output, switching current	4 x 2(2) A
Degree of protection	IP40
Dimensions (W x H x D)	144 x 96 x 109 mm

	Stock no.	Product no.	Price (€)
	S55370-C136	RVP340	686.40

Standard controllers

Communicating heating controllers

Heating controller RVP3..

Heating controller for 1 heating circuit and d.h.w.

RVP350



Weather-compensated flow temperature control of heating circuit with or without room influence, d.h.w. heating and demand based boiler temperature control.

Key functions

In addition to the functions of the RVP340, the RVP350 provides the following:

- 3 preprogrammed plant types can be selected, with automatic assignment of the functions required for each plant type
- Weather-compensated flow temperature control through control of valve (mixing) in a heating circuit
- Demand based control of the boiler temperature through control of the burner
- D.h.w. heating with charging pump, electric immersion heater and solar collector

D.h.w. control

D.h.w. control independent of the heating circuit. Control can be enabled as follows:

- According to its own 7-day program
- According to the program of the heating circuit
- According to the programs of the zone controllers on the data bus
- Permanently (24 hours a day)

D.h.w. heating features a legionella function, which can be deactivated. Legionella protection is activated once a week. The d.h.w. temperature is acquired with sensors or thermostats.

Boiler temperature control

Boiler temperature control operates as demand-dependent 2-position control. The boiler temperature is controlled through cycling of a 1- or a 2-stage burner (direct burner control). When there is no heat request, the boiler will either be shut down or maintained at the minimum temperature (selectable).

Both minimum and maximum limitation of the boiler temperature are adjustable.

Data sheet	N2545
Operating voltage	AC 230 V
Frequency	50 Hz
Power consumption	7 VA
Analog input, signal	LG-Ni1000
	NTC 575
Digital inputs	Status contact
Relay output, switching voltage	AC 24...230 V
Relay output, switching current	2 x 2(2) A
	7 x 1(1) A
Degree of protection	IP40
Dimensions (W x H x D)	144 x 96 x 109 mm

	Stock no.	Product no.	Price (€)
	S55370-C137	RVP350	908.70

Standard controllers

Communicating heating controllers

Heating controller RVP3..

RVP360



Heating controller for 2 heating circuits and d.h.w.

Weather-compensated flow temperature control of 2 independent heating circuits with or without room influence, d.h.w. heating and demand-dependent boiler control.

Key functions

In addition to the functions of the RVP350, the RVP360 provides the following:

- 6 preprogrammed plant types can be selected, with automatic assignment of the functions required for each plant type
- Control of 2 mixing heating circuits
- Control of 1 pump heating circuit and 1 mixing heating circuit

Data sheet	N2546
Operating voltage	AC 230 V
Frequency	50 Hz
Power consumption	8 VA
Analog input, signal	LG-Ni1000
	NTC 575
Relay output, switching voltage	AC 24...230 V
Relay output, switching current	2 x 2(2) A
	9 x 1(1) A
Degree of protection	IP40
Dimensions (W x H x D)	144 x 96 x 109 mm

	Stock no.	Product no.	Price (€)
	S55370-C139	RVP360	1092.00

Multifunctional Heating Controllers

RVL4..

Multifunctional heating controller for use in all types of residential and nonresidential buildings, configured for all standard heating applications. The RVL controllers provide weather-compensated flow temperature control and preprogrammed plant types with automatic assignment of the functions required for each type of plant.

The RVL controllers are characterized by the easy-to-understand user interface, large display and setting features:

- Analog heating curve
- Room temperature setpoint knob
- Proven operating line principle
- Setting level for the heating engineer
- Communication facilities
- Remote operation

Operating voltage	AC 230 V
Frequency	50 Hz
Relay output, switching voltage	AC 24...230 V
Relay output, switching current	2 A
Dimensions (W x H x D)	144 x 144 x 113 mm

Heating controller for 1 heating circuit or boiler temperature control

RVL480

Key functions

Weather-compensated flow temperature control, with or without room influence
6 preprogrammed plant types are provided

Plant system

- Control of a mixing valve serving a heating zone (space heating)
- Control of a burner (1- or 2-stage)
- Control of a valve in the primary return of a heating zone with district heat connection
- Demand-dependent control (precontrol) of a mixing valve / of the boiler temperature / of a heat exchanger (heat demand signal via data bus)



Additional functions

The RVL480 offers the following functions (no submodules or extra devices required):

- Display of parameters, actual values, operating states and fault status signals
- 7-day program with 3 heating periods per day
- 2 additional programs, each with 3 switching periods per day
- Automatic summer/winter changeover
- Holiday program (up to 8 holiday periods per year)
- Optimum start/stop in accordance with the heating program (with or without room influence)
- Automatic ECO function, depending on the outside temperature and the type of building construction
- Optional remote selection of operating modes (via room unit or external switch)
- Scalable DC0...10 V output for passing on the heat request to other devices
- Quick setback and boost heating
- Preselection of flow temperature setpoint via external contact
- Minimum and maximum limitation of the flow temperature
- Minimum and maximum limitation of the return temperature (shifting / constant)
- Maximum limitation of the room temperature
- Communication with other devices via the data bus
- Limitation of the return temperature differential (DRT) for district heat applications
- Frost protection and pump protection
- Flow temperature alarm

Data sheet	N2540
Power consumption	7 VA

	Stock no.	Product no.	Price (€)
	BPZ:RVL480	RVL480	1185.60

RVL482



Heating controller for boiler temperature control for modulating or 2-stage burners with d.h.w. heating

Key functions

Weather-compensated flow temperature control, with or without room influence, with simultaneous demand-compensated boiler and DHW control.

21 preprogrammed plant types can be selected from a combination of 5 heating applications and 4 DHW applications.

Heating circuit plant types

- Control of space heating through control of a mixing valve in the heating circuit
- Control of space heating through control of a mixing valve with simultaneous demand-dependent control of the boiler temperature
- Control of space heating through control of mixing valve and boiler, plus minimum limitation of the boiler return temperature with own mixing valve
- Demand-dependent control (precontrol) of the boiler temperature (heat demand signal via bus)
- Demand-dependent control (precontrol) of the boiler temperature with minimum limitation of the boiler return temperature via mixing valve (heat demand signal via bus)

DHW plant types

- Charging of DHW storage tank through control of a charging pump.
- Charging of DHW storage tank through control of a mixing valve
- DHW heating via heat exchanger through control of a 2-port valve in the primary return
- DHW heating through electric immersion heater only
- DHW heating with solar collector

Additional functions

In addition to the functions of the RVL480 and RVL481, the RVL482 offers the following functions:

- 2 scalable DC 0...10 V inputs for heat demand signals from external consumers
- Connection facility for solar and wind sensor (refer to chapter "Sensors")
- Control of a boiler or circulating pump
- Optional selection of circulating pump/bypass pump
- Three 7-day programs, each with 3 heating periods per day

Data sheet

N2542

Power consumption

9 VA

	Stock no.	Product no.	Price (€)
	BPZ:RVL482	RVL482	1586.00

Standard controllers

Communicating heating controllers

Room unit QA..

Room unit with PPS interface

QAA50.110/101

Room unit with LCD display, room temperature measurement and display, knob for manual setpoint readjustments, operating- and presence button



Data sheet	N2281
Voltage supply	Supply from controller module
Sensing element	NTC 10k
Measuring range, temperature	0...45 °C
Setpoint readjustment range	±3 K
Communication	PPS
Mounting	Wall mounting
Connection cable	2-wire
Degree of protection	IP20
Dimensions (W x H x D)	96 x 96 x 47 mm

	Stock no.	Product no.	Price (€)
	BPZ:QAA50.110/101	QAA50.110/101	109.00

Multifunctional room operator unit

QAW70..

Programmable unit with display of date, time of day, room temperature, outside temperature, setting values and current 7-day program. With knob for manual setpoint readjustments and presence button for manually activating the savings program



Data sheet	N1637
Measuring range, temperature	0...32 °C
Setpoint readjustment range	±3 K
Communication	PPS
Connection cable	2-wire
Degree of protection	IP30
Dimensions (W x H x D)	97 x 143 x 41 mm

Range overview QAW70..

Product Title	Stock no.	Product no.	Price (€)
Multifunctional room unit, instructions in en, de, fr, it	BPZ:QAW70-A	QAW70-A	378.30

Standard controllers

Communicating heating controllers

Modular heating controller RMH760B..

RMH760B-1



Heating controller

- Heating controller as primary controller or main controller (district heat) or heating circuit controller
- Boiler temperature control
- Control of max. 3 heating circuits and DHW heating (7 variants available) with optional extension modules
- Tested, predefined applications (refer to Application Catalog)
- Flexible configuration
- Clear-text operation with separate operator unit (plug-in type or detached)
- Integrated KNX bus communication
- No commissioning tool required

The RMH760B-1 supports the languages: English, German, French, Italian, Spanish, Portuguese, Dutch, Danish, Finnish, Norwegian, Swedish, Polish, Czech, Hungarian, Russian, Slovak, Bulgarian, Greek, Romanian, Slovenian, Serbian, Croatian, Turkish.

Extension modules complement the heating controller and offer extra functions. They are attached to the controller via plug-in connectors. The extension modules do not operate autonomously. The operation of the device from commissioning to enduser operation can be done via the operator unit.

Available extension modules:

- 2 heating circuit modules RMZ782B
- 1 DHW module RMZ783B
- 1 universal module RMZ787
- 2 universal modules RMZ789

A total of 4 extension modules can simultaneously be used with the heating controller.

Available operator units:

- Plug-in type operator unit RMZ790
- Detached operator unit RMZ791
- Bus operator unit RMZ792

Data sheet	N3133
Operating voltage	AC 24 V
Frequency	50/60 Hz
Power consumption	12 VA
Communication	KNX (KNX TP1)
Analog outputs, number	2
Analog output, signal	DC 0...10 V
Analog output, current	Max. 1 mA
Universal input, signal	T1 (PTC)
	Pt1000
	Potential-free digital status contact
	NTC 575
	LG-Ni1000
	Digital pulse contact
	DC 0...10 V
	2 x LG-Ni1000
	1000...1175 Ohm
	0...1000 Ohm
Universal inputs, number	6
Relay outputs, number	5
Relay output, switching voltage	AC 19...250 V
Relay output, switching current	4 (3) A
Degree of protection	IP20
Dimensions (W x H x D)	173 x 90 x 80 mm

Stock no.	Product no.	Price (€)
BPZ:RMH760B-1	RMH760B-1	916.50

Standard controllers

Communicating heating controllers

Boiler sequence controller RMK770..

Boiler sequence controller

RMK770-1

Modular heating controller with integrated control and supervisory functions for:

- Up to 6 boilers, multistage or modulating burners
- Precontrol, heating circuit
- Tested, predefined applications (refer to Application Catalog)
- Flexible configuration
- Clear-text operation with separate operator unit (plug-in type or detached)
- Integrated KNX bus communication
- No commissioning tool required



The RMK770-1 supports the languages: English, German, French, Italian, Spanish, Portuguese, Dutch, Danish, Finnish, Norwegian, Swedish, Polish, Czech, Hungarian, Russian, Slovak, Bulgarian, Greek, Romanian, Slovenian, Serbian, Croatian, Turkish.

Extension modules complement the boiler sequence controller and offer extra functions. They are attached to the controller via plug-in connectors. The extension modules do not operate autonomously. The operation of the device from commissioning to enduser operation can be done via the operator unit.

Available extension modules:

- 3 universal modules RMZ785
- 3 universal modules RMZ787
- 3 universal modules RMZ788
- 3 universal modules RMZ789

A total of 3 extension modules can simultaneously be used with the boiler sequence controller.

Available operator units:

- Plug-in type operator unit RMZ790
- Detached operator unit RMZ791
- Bus operator unit RMZ792

Data sheet	N3132
Operating voltage	AC 24 V
Frequency	50/60 Hz
Power consumption	12 VA
Communication	KNX (KNX TP1)
Analog outputs, number	2
Analog output, signal	DC 0...10 V
Analog output, current	Max. 1 mA
Digital inputs, number	2
Digital inputs	Potential-free input signal
Digital input, contact query	5 mA
	DC 15 V
Universal input, signal	T1 (PTC)
	Pt1000
	Potential-free digital status contact
	LG-Ni1000
	DC 0...10 V
	2 x LG-Ni1000
	1000...1175 Ohm
	0...1000 Ohm
Universal inputs, number	8
Relay outputs, number	7
Relay output, switching voltage	AC 19...250 V
Relay output, switching current	4 (3) A
Degree of protection	IP20
Dimensions (W x H x D)	173 x 90 x 80 mm

	Stock no.	Product no.	Price (€)
	BPZ:RMK770-1	RMK770-1	1456.00

Standard controllers

Communicating heating controllers

Extension modules and operator units for RMH760B.. and RMK770..

RMZ790



Plug-in type operator unit

- Operator unit plugs into the Synco™ 700 controllers
- For displaying and changing plant data for service staff and enduser
- Clear-text operation
- Can be plugged in and removed during operation
- Power supply via the controller

Data sheet

N3111

Stock no.

Product no.

Price (€)

BPZ:RMZ790

RMZ790

288.60

QAW740



Room unit with KNX bus

Configurable unit with display of operating mode, timer, temperatures and fault.

With 3 operating elements:

- Knob for setpoint readjustments
- Operating mode button
- Timer button



Data sheet

N1633

Voltage supply

KNX bus

Measuring range, temperature

0...45 °C

Setpoint readjustment range

±3 K

Communication

KNX (KNX TP1)

Connection cable

2-wire

Degree of protection

IP20

Dimensions (W x H x D)

96 x 96 x 47 mm

Weight (net)

0.22 kg

Stock no.

Product no.

Price (€)

BPZ:QAW740

QAW740

230.10

RMZ791



Detached operator unit with 3 m cable

Like plug-in type operator unit, but:

- Other mounting choices (typically for control panel door or wall mounting)
- Larger display
- Connection via a prefabricated 3 m cable, supplied as standard

Data sheet

N3112

Stock no.

Product no.

Price (€)

BPZ:RMZ791

RMZ791

431.60

Standard controllers
Communicating heating controllers

Extension modules and operator units for RMH760B.. and RMK770..

Bus operator unit

RMZ792

Communicating operator unit for operating up to 150 controllers, room units and central units from the Synco™ 700 range via KNX bus.

Favorite pages can be freely defined. Designed for fixed installation or mobile use.

Data sheet	N3113
Operating voltage	AC 24 V
Voltage supply	KNX bus
Power consumption	2.5 VA
Degree of protection	IP20
Dimensions (W x H x D)	145 x 96 x 34 mm



Stock no.	Product no.	Price (€)
BPZ:RMZ792	RMZ792	1194.70

Module connector

RMZ780

Module connector for detached mounting of extension modules within the control panel.

Data sheet	N3138
Max. cable length	10 m
Dimensions (W x H x D)	18.5 x 87.5 x 22.5 mm



Stock no.	Product no.	Price (€)
BPZ:RMZ780	RMZ780	193.70

Standard controllers

Communicating heating controllers

Extension modules and operator units for RMH760B.. and RMK770..

RMZ782B



Heating circuit module

- Weather-compensated flow temperature control via heating circuit's mixing valve
- Control of heating circuit pump

The available heating circuit control and supervisory functions are the same as those of the RMH760B-1

Data sheet	N3136
Voltage supply	Supply from controller module
Power consumption	3 VA
Analog outputs, number	1
Analog output, signal	DC 0...10 V
Analog output, current	Max. 1 mA
Universal inputs, number	3
Universal input, signal	LG-Ni1000 0...1000 Ohm 1000...1175 Ohm DC 0...10 V Pt1000 NTC 575 T1 (PTC) 2 x LG-Ni1000
Relay outputs, number	3
Relay outputs	Switching contact, potential-free
Relay output, switching voltage	AC 19...265 V
Relay output, switching current	4 (3) A
Degree of protection	IP20
Weight (net)	0.334 kg
Dimensions (W x H x D)	117 x 90 x 75 mm

	Stock no.	Product no.	Price (€)
	BPZ:RMZ782B	RMZ782B	412.10

Standard controllers
Communicating heating controllers

Extension modules and operator units for RMH760B.. and RMK770..

DHW module**RMZ783B**

- Control of the storage tank temperature
- Storage tank charging with integrated coil, with pump or mixing valve
- Storage tank charging with detached heat exchanger, with pump and mixing valve
- Storage tank charging according to a time program
- Control of the circulating pump according to a time program

Data sheet	N3136
Voltage supply	Supply from controller module
Power consumption	3 VA
Analog outputs, number	1
Analog output, signal	DC 0...10 V
Analog output, current	Max. 1 A
Universal inputs, number	4
Universal input, signal	LG-Ni1000 0...1000 Ohm 1000...1175 Ohm DC 0...10 V Pt1000 NTC575 T1 (PTC) 2 x LG-Ni1000
Relay outputs, number	5
Relay outputs	Switching contact, potential-free
Relay output, switching voltage	AC 19...265 V
Relay output, switching current	4 (3) A
Degree of protection	IP20
Weight (net)	0.36 kg
Dimensions (W x H x D)	117 x 90 x 75 mm

	Stock no.	Product no.	Price (€)
	BPZ:RMZ783B	RMZ783B	440.70

Standard controllers

Communicating heating controllers

Extension modules and operator units for RMH760B.. and RMK770..

RMZ78..



Universal modules

Additional inputs and outputs required by the Synco™ 700 controllers can be provided by these modules. A description of the functions is given with the relevant controller module.

Data sheet	N3146
Voltage supply	Supply from controller module
Power consumption	3 VA
Analog output, signal	DC 0...10 V
Analog output, current	Max. 1 mA
Universal input, signal	0...1000 Ohm
	1000...1175 Ohm
	DC 0...10 V
	Potential-free digital status contact
	LG-Ni1000
	Pt1000
	T1 (PTC)
	2 x LG-Ni1000
Relay outputs	switching contact, potential-free
Relay output, switching voltage	AC 19...265 V
Relay output, switching current	4 (3) A
Degree of protection	IP20
Dimensions (W x H x D)	117 x 90 x 75 mm

Range overview RMZ78..

Universal- inputs, number	Analog outputs, number	Relay outputs, number	Weight (net) [kg]	Stock no.	Product no.	Price (€)
6	2	4	0.359	BPZ:RMZ789	RMZ789	581.10
8	0	0	0.3	BPZ:RMZ785	RMZ785	339.30
4	0	4	0.334	BPZ:RMZ787	RMZ787	339.30
4	2	2	0.322	BPZ:RMZ788	RMZ788	482.30

Standard controllers

Communicating heating controllers

Field devices for RMH760B.. and RMK770..

Sensors, setpoint adjusters

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Outside sensor LG-Ni1000	N1811	BPZ:QAC22	QAC22	41.27
Outside sensor NTC 575 Ohm	N1811	BPZ:QAC32	QAC32	60.26
Strap-on temperature sensor LG-Ni1000	N1801	BPZ:QAD22	QAD22	47.82
Immersion temperature sensor 100 mm LG-Ni1000, with protection pocket	N1781	BPZ:QAE2120.010	QAE2120.010	95.76
Cable temperature sensor PVC 2 m, LG-Ni1000	N1831	BPZ:QAP22	QAP22	26.59
Solar sensor	N1943	BPZ:QLS60	QLS60	730.98
Strap-on temperature sensor with cable LG-Ni1000	N1802	BPZ:QAD26.220	QAD26.220	50.04
Immersion temperature sensor Ø 4 mm with cable and fitting	N1790	BPZ:QAE26.9..	QAE26.9..	
Flue gas temperature sensor Pt1000	N1846	BPZ:FGT-PT1000	FGT-PT1000	576.40
Setpoint adjuster, passive, scale 0...50 °C (exchangeable)	N1991	BPZ:BSG21.1	BSG21.1	73.06

Monitors

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Safety limit thermostat	N1204	BPZ:RAK-ST..M	RAK-ST..M	
Flow switch for use in hydraulic systems, PN10, DN32...200	N1592	BPZ:QVE1900	QVE1900	203.05
Flow switch for use in hydraulic systems, PN25, DN20...200	N1594	BPZ:QVE1901	QVE1901	162.44
Thermal reset limit thermostat	N1202	BPZ:RAK-TW.1..H	RAK-TW.1..H	
Temperature limiter	N1206	BPZ:RAK-TB.1..M	RAK-TB.1..M	

Room units / sensors

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Base module with KNX for temperature and humidity measurement	N1411	BPZ:AQR2570..	AQR2570..	
Front module with passive temperature measurement, LG-Ni1000	N1408	S55720-S133	AQR2531ANW	53.45
Front module for base modules, temperature (active)	N1411	S55720-S136	AQR2532NNW	46.77
Room temperature sensor LG-Ni1000	N1721	BPZ:QAA24	QAA24	51.35
Room sensor KNX for temperature, white	N1602	S55624-H103	QMX3.P30	110.25
Room unit with room temperature sensor and setpoint readjuster -3...3 K	N1721	BPZ:QAA27	QAA27	116.59
Room unit with KNX bus	N1633	BPZ:QAW740	QAW740	230.10
Mounting plates for front modules with passive temperature measurement	N1408	BPZ:AQR2500..	AQR2500..	

Transformers

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Transformers	N5536	BPZ:SEM62..	SEM62..	

Service tool

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Service tool for KNX / LPB	N5655	BPZ:OCI700.1	OCI700.1	904.80
USB - KNX Service interface	A6V10438951	S55800-Y101	OCI702	540.80
Web server for Synco devices	N5701	BPZ:OZW772..	OZW772..	

The software (ACS790) can be downloaded for free via <http://www.siemens.com/acs790>.

Standard controllers

Standalone district heating controllers

District heating controllers RVD1..

RVD12..



District heating controller

Control of district heat substations, space heating and d.h.w. heating.
Optimized for low return temperatures in district heating networks.

- 3 ready programmed and preselected plant types
- Straightforward, easy-to-understand operation
- Analog adjustment of room temperature setpoint, other adjustments with operating lines
- Display of time of day, time program, setpoints, actual values, limitations, errors, etc.
- Optional remote operation via room unit
- 2 independent switching programs each with 3 occupancy times per day
- Holiday function (via room unit)
- DRT limitation for the reduction of peak loads
- Maximum limitation of the return temperature on the primary side
- Minimum and maximum limitation of the flow temperature
- Automatic summer / winter changeover
- Automatic ECO function
- Pump protection
- Legionella function
- Frost protection function
- Automatic monitoring of sensors with alarm indication
- Relay and sensor tests, manual operation
- Locking function for district heat parameters
- Communication via Modbus
- Display with background lighting

Plant-specific

- 1 pump heating circuit, control of the flow temperature, optionally weather-compensated / weather- and room temperature-compensated / room temperature-compensated
- D.h.w. heating:
 - Storage system with integrated heat exchanger and 1 storage tank sensor
 - Charging pump

Data sheet	N2510
Operating voltage	AC 230 V
Frequency	50 Hz
Power consumption	5.5 VA
Analog input, signal	LG-Ni1000
	NTC 575
Digital outputs	3 × AC 230 V 1(1) A
	1 × AC 230 V 2(2) A
Dimensions (W x H x D)	144 x 96 x 109 mm

Range overview RVD12..

Product Title	Stock no.	Product no.	Price (€)
Controller, 3 programmed plant types, instructions in da, de, en, fi, fr, it, sv	S55370-C109	RVD120-A	582.40

Standard controllers

Standalone district heating controllers

District heating controllers RVD1..

District heating controller

RVD14..



Same functionality as the RVD120, but with the following extra features:

- 8 ready programmed and preselected plant types
- Solar d.h.w. heating
- D.h.w. heating with electric immersion heater
- Refill function
- Communication via Modbus

Plant-specific

- Precontrol of internal control loops
- 1 pump or mixing heating circuit, flow temperature control, optionally weather-compensated / weather- and room temperature-compensated / room temperature-compensated
- D.h.w. heating:
 - Instantaneous system
 - Storage tank charging system with 1 or 2 storage tank sensors
 - Storage system with integrated heat exchanger
 - 2 charging pumps
 - Circulating pump
 - Solar d.h.w. heating

Data sheet	N2510
Operating voltage	AC 230 V
Frequency	50 Hz
Power consumption	6 VA
Analog input, signal	LG-Ni1000
	NTC 575
	DC 0...10 V
Digital inputs, number	1
Digital inputs	Flow switch
Digital outputs	5 × AC 230 V 1(1) A
	4 × AC 230 V 2(2) A
Dimensions (W x H x D)	144 x 96 x 109 mm

Range overview RVD14..

Product Title	Stock no.	Product no.	Price (€)
Controller, 8 programmed plant types, instructions in da, de, en, fi, fr, it, sv	S55370-C113	RVD140-A	755.30

Standard controllers

Communicating district heating controllers

District heating controllers RVD2..

RVD25..



District heating controller

Multifunctional heating controller for use in district heating substations and district heating plants with LPB and M-bus communication. Suited for one heating circuit with d.h.w. heating in instantaneous systems or with storage tank. 28 programmed plant types. Operating voltage AC 230 V.

Key features:

- Optimized for low return temperatures in district heating networks.
- Display of time of day, time program, setpoints, actual values, limitations, errors, etc.
- Optional remote operation via room unit
- 2 independent switching programs each with 3 occupancy times per day
- Yearly clock with automatic summer- / wintertime changeover
- Power and / or volumetric flow limitation in combination with heat meter
- Pump and valve protection
- Automatic monitoring of sensors with display of alarm
- Locking function for district heat parameters
- Optional suppression of hydraulic creep
- Frost protection function
- DRT limitation for the reduction of peak loads and of idle heat
- Maximum limitation of the return temperature on the primary side
- Minimum and maximum limitation of the flow temperature
- Optimum start / stop control of the heating system
- Automatic ECO function
- Legionella function
- Forced charging function for plant with storage tank
- Cooling down protection for the primary supply lines
- Solar d.h.w. heating
- D.h.w. heating with electric immersion heater
- Refill function
- Selectable heating period

Plant-specific:

- Precontrol internal and interconnected
- 1 mixing or pump heating circuit
- D.h.w. heating with selectable priority:
 - Instantaneous systems
 - Storage charging system
 - Storage system with integrated heat exchanger
 - Circulating pump, 2 charging pumps

Data sheet	N2513
Operating voltage	AC 230 V
Frequency	50 Hz
Power consumption	5.5 VA
Communication	LPB (interconnected controller) M-bus (slave)
Analog input, signal	DC 0...10 V LG-Ni1000 NTC 575
Digital inputs, number	1
Digital inputs	Pulse transmitter Status contact
Digital outputs	1 × PWM, DC 12 V 2 × AC 230 V 2(2) A 8 × AC 230 V 1(1) A
Dimensions (W x H x D)	144 x 96 x 109 mm

Range overview RVD25..

Product Title	Stock no.	Product no.	Price (€)
Controller, 28 programmed plant types, instructions in de, en, fr, it, da, fi, sv	S55370-C125	RVD250-A	817.70

Standard controllers

Communicating district heating controllers

District heating controllers RVD2..

District heating controller

RVD26..



Multifunctional heating controller for use in district heating substations and district heating plants with LPB and M-bus communication. Suited for 2 heating circuits with d.h.w. heating in instantaneous systems or with storage tank. 14 programmed plant types. Operating voltage AC 230 V.

Same functionality as RVD250, but with the following extra features:

- 2 heating circuits
- Without precontrol in interconnected systems
- 3 independent switching programs each with 3 occupancy times per day

Plant-specific:

- Precontrol internal control loops
- 2 heating circuits (mixing and / or pump heating circuit): Control of flow temperature, optionally weather-compensated / weather- and room temperature-compensated / room temperature-compensated
- D.h.w. heating with selectable priority:
 - Instantaneous systems
 - Storage charging system
 - Storage system with integrated heat exchanger
 - Charging pump
 - Circulating pump

Data sheet	N2515
Operating voltage	AC 230 V
Frequency	50 Hz
Power consumption	6 VA
Communication	LPB (interconnected controller) M-bus (slave)
Analog input, signal	DC 0...10 V LG-Ni1000 NTC 575
Digital inputs, number	1
Digital inputs	Pulse transmitter Status contact
Digital outputs	1 × PWM, DC 12 V 2 × AC 230 V 2(2) A 8 × AC 230 V 1(1) A
Dimensions (W x H x D)	144 x 96 x 109 mm

Range overview RVD26..

Product Title	Stock no.	Product no.	Price (€)
Controller, 14 programmed plant types, instructions in de, en, fr, it, da, fi, sv	S55370-C129	RVD260-A	906.10

Sensor and room units for RVD..

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Web Server for LPB devices	N5712	BPZ:OZW672..	OZW672..	
Room unit with PPS interface	N2281	BPZ:QAA50.110/101	QAA50.110/101	109.00
Outside sensor LG-Ni1000	N1811	BPZ:QAC22	QAC22	41.27
Outside sensor NTC 575 Ohm	N1811	BPZ:QAC32	QAC32	60.26
Strap-on temperature sensor LG-Ni1000	N1801	BPZ:QAD22	QAD22	47.82
Immersion temperature sensor 100 mm LG-Ni1000, with protection pocket	N1781	BPZ:QAE2120.010	QAE2120.010	95.76
Cable temperature sensor for high-temperature applications (180°C)	N1833	BPZ:QAP21.2	QAP21.2	74.67
Cable temperature sensor silicone 1.5 m, LG-Ni1000	N1831	BPZ:QAP21.3	QAP21.3	58.56
Multifunctional room operator unit	N1637	BPZ:QAW70..	QAW70..	
Pressure sensor for neutral and slightly aggressive liquids and gases (0...10 V)	A6V10432494	BPZ:QBE2003-P..	QBE2003-P..	
Pressure sensor for refrigerants (0...10 V)	A6V10434676	BPZ:QBE2004-P..U	QBE2004-P..U	

Standard controllers

Standalone HVAC controllers

Duct temperature controllers RLM..

RLM162



Air duct temperature controller, AC 24 V, 2 outputs DC 0...10 V

Compact electronic controller with integral duct mounted temperature sensor and setting unit combined in one device. It is designed for installation directly onto the plant. Only the wires for power supply connection and controller output need to be laid. Supplied complete with mounting flange.

Application:

Modulating temperature controller, with 1 or 2 continuous DC 0...10 V output signals. The RLM162 is used for control and limiting of extract or supply air temperatures in small HVAC plants:

- Restaurants, conference rooms, store rooms
- Lecture theatres, classrooms
- In conjunction with central air handling units

The following units can be controlled:

- Heating (or cooling) valve actuators
- Air damper actuators
- Step controllers or current valves for electric heating
- Signal converters
- DX cooling units

Features:

- Auxiliary digital output
- Compensation via outside sensor
- Connection for remote setting unit
- P or PI control (selectable)
- Service modes
- Heating and cooling modes available
- Setpoint changeover via external contact or time switch
- Heating/cooling changeover via external contact

Data sheet	N3332
Operating voltage	AC 24 V
Frequency	50/60 Hz
Power consumption	2 VA
Setpoint readjustment range	0...10 K
Setpoint setting range	0...50 °C
Analog input, signal	LG-Ni1000
	0...1000 Ohm
	DC 0...10 V
Analog outputs, number	2
Analog output, signal	DC 0...10 V
Analog output, current	Max. 1 mA
Digital input, contact query	DC 3...6 mA
	DC 6...15 V
Relay outputs	N.O. contact, potential-free
Relay output, switching voltage	AC 24...230 V
Relay output, switching current	2 A
Probe length	400 mm
Type of fixing	Flange
Degree of protection	IP65
Dimensions (W x H x D)	125 x 152 x 78 mm

	Stock no.	Product no.	Price (€)
	BPZ:RLM162	RLM162	319.80

Field devices for RLM162

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Outside sensor LG-Ni1000	N1811	BPZ:QAC22	QAC22	41.27
Setpoint adjuster, passive, scale 0...50 °C (exchangeable)	N1991	BPZ:BSG21.1	BSG21.1	73.06

Standard controllers
Standalone HVAC controllers
Field devices for RLU..

Sensors, setpoint adjusters

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Duct sensor for air velocity	N1932	BPZ:QVM62.1	QVM62.1	378.59
Differential pressure sensors for liquids and gases (0...10 V)	N1922	BPZ:QBE3000..	QBE3000..	
Differential pressure sensor for liquids and gases	N1923	BPZ:QBE61.3-DP..	QBE61.3-DP..	
Active setpoint adjuster 0...100 %, for flush panel mounting	N1992	BPZ:BSG61	BSG61	91.00
Outside sensor LG-Ni1000	N1811	BPZ:QAC22	QAC22	41.27
Strap-on temperature sensor LG-Ni1000	N1801	BPZ:QAD22	QAD22	47.82
Immersion temperature sensor 100 mm LG-Ni1000, with protection pocket	N1781	BPZ:QAE2120.010	QAE2120.010	95.76
Immersion temperature sensor 150 mm, LG-Ni1000, with protection pocket	N1781	BPZ:QAE2120.015	QAE2120.015	100.87
Immersion temperature sensor 100 mm, LG-Ni1000, without protection pocket	N1781	BPZ:QAE2121.010	QAE2121.010	76.37
Cable temperature sensor for high-temperature applications (180°C)	N1833	BPZ:QAP21.2	QAP21.2	74.67
Cable temperature sensor silicone 1.5 m, LG-Ni1000	N1831	BPZ:QAP21.3	QAP21.3	58.56
Cable temperature sensor PVC 2 m, LG-Ni1000	N1831	BPZ:QAP22	QAP22	26.59
Duct sensor for humidity (DC 0...10 V)	N1864	BPZ:QFM2100	QFM2100	269.86
Duct sensor for humidity (0...10 V) and temperature (Ni1000)	N1864	BPZ:QFM2120	QFM2120	298.68
Duct sensor for humidity (DC 0...10 V) and temperature (DC 0...10 V)	N1864	BPZ:QFM2160	QFM2160	282.96
Duct sensor for humidity (DC 0...10 V) for demanding requirements	N1882	BPZ:QFM3100	QFM3100	398.24
Duct sensor for humidity (0...10 V) and temperature (0...10 V) with calibration certificate	N1883	BPZ:QFM4160	QFM4160	1152.80
Solar sensor	N1943	BPZ:QLS60	QLS60	730.98
Strap-on temperature sensor with cable LG-Ni1000	N1802	BPZ:QAD26.220	QAD26.220	50.04
Window pane temperature sensor	N1830	BPZ:QAT22	QAT22	175.54
Immersion temperature sensor 100 mm DC 0...10 V	N1782	BPZ:QAE2164.010	QAE2164.010	186.02
Immersion temperature sensor 150 mm DC 0...10 V	N1782	BPZ:QAE2164.015	QAE2164.015	195.19
Immersion temperature sensor Ø 6 mm with cable and fitting	N1790	BPZ:QAE26.9	QAE26.9	110.96
Duct air quality sensor CO ₂ / temperature / rel. humidity / VOC	N1962	BPZ:QPM21..	QPM21..	
Flue gas temperature sensor Pt1000	N1846	BPZ:FGT-PT1000	FGT-PT1000	576.40
Outside/room temperature sensor DC 0...10 V	N1814	BPZ:QAC3161	QAC3161	146.72
Duct temperature sensor 400 mm, Pt1000	N1761	BPZ:QAM2112.040	QAM2112.040	79.12
Duct temperature sensor 400 mm, LG-Ni1000	N1761	BPZ:QAM2120.040	QAM2120.040	89.74
Duct temperature sensor 2000 mm, LG-Ni1000	N1761	BPZ:QAM2120.200	QAM2120.200	168.99
Duct temperature sensor 6000 mm, LG-Ni1000	N1761	BPZ:QAM2120.600	QAM2120.600	260.69
Duct sensor for humidity (DC 0...10 V) and temperature (DC 0...10 V) for demanding requirements	N1882	BPZ:QFM3160	QFM3160	420.51
Differential pressure sensors for liquids and gases (DC 0...10 V)	N1920	BPZ:QBE63-DP..	QBE63-DP..	
Setpoint adjuster, passive, scale 0...50 °C (exchangeable)	N1991	BPZ:BSG21.1	BSG21.1	73.06
Setpoint adjuster, passive, temperature ranges: -20...20 °C; 20...60 °C; -3...3 K	N1991	BPZ:BSG21.5	BSG21.5	77.87
Frost detector, modulating	A6V10432020	BPZ:QAF63..J	QAF63..J	
Pressure sensor for neutral and slightly aggressive liquids and gases (0...10 V)	A6V10432494	BPZ:QBE2003-P..	QBE2003-P..	
Pressure sensor for refrigerants (0...10 V)	A6V10434676	BPZ:QBE2004-P..U	QBE2004-P..U	
Differential pressure sensor, DC 0...10 V	N1910_01	BPZ:QBM2030..	QBM2030..	
Duct air quality sensor CO ₂ / temperature / rel. humidity / VOC; Modbus	A6V11610641	BPZ:QPM21..-MO	QPM..-MO	

Monitors

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Frost monitor, 2-point, capillary tube 6000 mm, -10...+15 °C	A6V11965899	S55700-P162	QAF65.6M-J	183.40
Frost monitor, 2-point	N1284	BPZ:QAF81..	QAF81..	
Differential pressure monitor	N1552	BPZ:QBM81..	QBM81..	
Room hygrostat, setpoint setting range 30...90 % r.h., setpoint adjuster inside device	N1518	BPZ:QFA1000	QFA1000	99.56

Standard controllers

Standalone HVAC controllers

Field devices for RLU..

Monitors

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Room hygrostat, setpoint setting range 30...90 % r.h., external setpoint adjustment	N1518	BPZ:QFA1001	QFA1001	101.26
Duct hygrostat, setpoint setting range 15...95 % r.h.	N1514	BPZ:QFM81.2	QFM81.2	243.66
Room hygrostat, setpoint setting range 15...95 % r.h., setpoint adjuster inside device	N1514	BPZ:QFM81.21	QFM81.21	322.26
Frost detector, air side, 2-point	A6V10432022	BPZ:QAF64..J	QAF64..J	
Condensation monitor	A6V10741072	BPZ:QXA21..	QXA21..	

Room units / sensors

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Room air quality sensor CO ₂ / temperature / rel. Humidity / VOC	N1961	BPZ:QPA20..	QPA..	
Front module with passiv temperature measurement, LG-Ni1000	N1408	S55720-S133	AQR2531ANW	53.45
Room temperature sensor LG-Ni1000	N1721	BPZ:QAA24	QAA24	51.35
Room hygrostat, setpoint setting range 30...90 % r.h., setpoint adjuster inside device	N1518	BPZ:QFA1000	QFA1000	99.56
Room sensor for humidity (DC 0...10 V) and temperature (LG-Ni1000)	N1857	BPZ:QFA2020	QFA2020	263.31
Room hygrostat, setpoint setting range 30...90 % r.h., external setpoint adjustment	N1518	BPZ:QFA1001	QFA1001	101.26
Room sensor for humidity (DC 0...10 V)	N1857	BPZ:QFA2000	QFA2000	256.76
Room sensor for humidity (DC 0...10 V) for demanding requirements	N1858	BPZ:QFA3100	QFA3100	398.24
Indoor air quality controller with integrated VOC sensor for mixed gas	N1571	BPZ:QPA84	QPA84	163.75
Room unit with room temperature sensor and setpoint adjuster	N1721	BPZ:QAA25	QAA25	116.59
Room unit with room temperature sensor and setpoint readjuster -3...3 K	N1721	BPZ:QAA27	QAA27	116.59
Room sensor for humidity (DC 0...10 V) and temperature (DC 0...10 V)	N1857	BPZ:QFA2060	QFA2060	271.17
Room sensor for humidity (DC 0...10 V) and temperature (DC 0...10 V) for demanding requirements	N1858	BPZ:QFA3160	QFA3160	420.51
Room sensor for humidity (DC 0...10 V) and temperature (DC 0...10 V) with calibration certificate	N1859	BPZ:QFA4160	QFA4160	1152.80
Mounting plates for front modules with passiv temperature measurement	N1408	BPZ:AQR2500..	AQR2500..	

Step switches, signal converters, transformers and display

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Variable Speed Drive for pumps and fans, IP55, Filter B (C1)	N5111	BPZ:G120P..AM..B..	G120P..AM..B..	
Transformers	N5536	BPZ:SEM62..	SEM62..	
Universal digital indicator	N5312	BPZ:BAU200	BAU200	352.30
Current valve	N4938	S55376-C160	SEA45.5	221.00
Digital time switch, 1-channel, with 7-day program	N5243	BPZ:SEH62.1	SEH62.1	84.63
Signal converter DC 0...10 V or DC 0 / 10 V in AC 0 / 24 V	N5102	BPZ:SEM61.4	SEM61.4	179.40
Signal converter with preprogrammed applications	N5146	BPZ:SEZ220	SEZ220	439.40
Variable Speed Drive for pumps and fans, IP55, Filter A (C2)	N5111	BPZ:G120P..AM..A..	G120P..AM..A..	
Variable Speed Drive for pumps and fans, IP20, Filter B (C1)	N5111	BPZ:G120P..AE..B..	G120P..AE..B..	
Variable Speed Drive for pumps and fans, IP20, Filter A (C2)	N5111	BPZ:G120P..AE..A..	G120P..AE..A..	

Standard controllers

Standalone HVAC controllers

Room temperature controllers RLA..

Room temperature controller, AC 24 V, 2 outputs DC 0...10 V

RLA162

Electronic controller designed for room mounting applications. It is configurable for heating and/or cooling applications and can operate as a single controller or together with duct mounted units (RLM) for limiting.

Application:

Modulating temperature controller, with 1 or 2 continuous DC 0...10 V output signals. The RLA162 is used for control and limiting of room temperatures in small HVAC plants.



The following units can be controlled:

- Heating (or cooling) valve actuators
- Air damper actuators
- Step controllers or current valves for electric heating
- Signal converters

Features:

- Low limitation input (supply air temperature)
- Compensation via outside sensor
- Connection for remote setting unit
- P or PI control (selectable)
- Service modes
- Heating and cooling modes available
- Setpoint changeover via external contact or time switch

Data sheet	N3331
Operating voltage	AC 24 V
Frequency	50/60 Hz
Power consumption	2 VA
Setpoint readjustment range	0...10 K
Setpoint setting range	8...30 °C
Analog input, signal	LG-Ni1000
	DC 0...10 V
Analog outputs, number	2
Analog output, signal	DC 0...10 V
Analog output, current	Max. 1 mA
Digital inputs	Potential-free input signal
Digital input, contact query	DC 3...6 mA
	DC 6...15 V
Degree of protection	IP30
Dimensions (W x H x D)	97 x 114 x 43 mm

	Stock no.	Product no.	Price (€)
	BPZ:RLA162	RLA162	200.43

Field devices for RLA162

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Outside sensor LG-Ni1000	N1811	BPZ:QAC22	QAC22	41.27
Air duct temperature controller, AC 24 V, 2 outputs DC 0...10 V	N3332	BPZ:RLM162	RLM162	319.80

Field devices for RLA162.1

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Cable temperature sensor PVC 2 m, LG-Ni1000	N1831	BPZ:QAP22	QAP22	26.59
Outside/room temperature sensor DC 0...10 V	N1814	BPZ:QAC3161	QAC3161	146.72

Standard controllers

Standalone HVAC controllers

Universal controllers RLU..

RLU..



Universal controllers

- Tested, predefined applications
- Flexible configuration
- Suited for the controlled variables temperature, relative / absolute humidity, pressure / differential pressure, air flow rate, indoor air quality, etc.
- Autonomous sequence controllers with P, PI or PID mode
- Integrated operation
- No commissioning tool required (optional)

Data sheet	N3101
Operating voltage	AC 24 V
Frequency	50/60 Hz
Analog output, signal	DC 0...10 V
Analog output, current	Max. 1 mA
Digital input, contact query	5 mA
	DC 15 V
Universal input, signal	0...1000 Ohm
	1000...1175 Ohm
	DC 0...10 V
	Potential-free digital status contact
	LG-Ni1000
	Pt1000
	T1 (PTC)
	2 x LG-Ni1000
Relay output, switching voltage	AC 19...265 V
Relay output, switching current	4 (3) A
Degree of protection	IP20

Range overview RLU..

Digital inputs, number	Universal-inputs, number	Analog outputs, number	Relay outputs, number	Control loops, number	Stock no.	Product no.	Price (€)
1	4	0	2	1	BPZ:RLU202	RLU202	425.10
1	4	2	0	1	BPZ:RLU220	RLU220	425.10
1	4	2	2	2	BPZ:RLU222	RLU222	543.40
2	5	3	2	2	BPZ:RLU232	RLU232	747.50
2	5	3	6	2	BPZ:RLU236	RLU236	1014.00

Accessories for RLU..

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Front panel mounting frame	N3101	BPZ:ARG62.201	ARG62.201	49.01

Service tool

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Service tool for KNX / LPB	N5655	BPZ:OCI700.1	OCI700.1	904.80

Standard controllers
Standalone HVAC controllers
Universal controllers RWD..

RWD62/CN

Stock no.	Product no.	Price (€)
BPZ:RWD62/CN	RWD62/CN	295.10

RWD68/CN

Stock no.	Product no.	Price (€)
BPZ:RWD68/CN	RWD68/CN	286.00

Standard controllers

Standalone HVAC controllers

Universal controllers RWD..

RWD..



Universal controller for HVAC systems

Universal controller with P or PI action for heating, ventilation and air conditioning.

Auxiliary functions

- PI limiter function (absolute and relative limit)
- Remote setpoint
- Setpoint compensation
- Winter/summer mode changeover (analogue or digital input)
- Cascade control
- Maximum priority for cooling / dehumidifying

Frequency

50/60 Hz

Digital inputs

Potential-free input signal

Universal input, signal

LG-Ni1000

DC 0...10 V

Pt1000

Degree of protection

IP20

Range overview RWD..

Operating voltage [V]	Analog outputs, number	Relay outputs, number	Control loops, number	Stock no.	Product no.	Price (€)
AC 24	1	1	1	BPZ:RWD68	RWD68	217.10
AC 24		2	1	BPZ:RWD82	RWD82	239.20

Standard controllers

Communicating HVAC controllers

Modular universal controllers RMU7..0B..

Universal controller

RMUB..



- Universal controllers with integrated control and supervisory functions
- Suited for the controlled variables temperature, relative / absolute humidity, pressure / differential, air flow rate, indoor air quality, etc.
- Autonomous sequence controllers with P, PI or PID mode
- Tested, predefined applications (refer to Application Catalog)
- Flexible configuration
- Clear-text operation with separate operator unit (plug-in type or detached)
- Integrated KNX bus communication
- No commissioning tool required

The RMU7..0B-1 supports the languages: English, German, French, Italian, Spanish, Portuguese, Dutch, Danish, Finnish, Norwegian, Swedish, Polish, Czech, Hungarian, Russian, Slovak, Bulgarian, Greek, Romanian, Slovenian, Serbian, Croatian, Turkish, Chinese.

Extension modules complement the universal controller and offer extra functions. They are attached to the controller via plug-in connectors. The extension modules do not operate autonomously. The operation of the device from commissioning to enduser operation can be done via the operator unit.

Available extension modules:

- 1 universal module RMZ785
- 2 universal modules RMZ787
- 2 universal modules RMZ788

A total of 4 extension modules can simultaneously be used with the universal controller.

Available operator units:

- Plug-in type operator unit RMZ790
- Detached operator unit RMZ791
- Bus operating unit RMZ792

Data sheet	N3150
Operating voltage	AC 24 V
Frequency	50/60 Hz
Power consumption	12 VA
Communication	KNX (KNX TP1)
Analog output, signal	DC 0...10 V
Analog output, current	Max. 1 mA
Universal input, signal	LG-Ni1000
	T1 (PTC)
	Pt1000
	0...1000 Ohm
	1000...1175 Ohm
	DC 0...10 V
	Digital pulse contact
	Potential-free digital status contact
	2 x LG-Ni1000
Relay output, switching voltage	AC 19...250 V
Relay output, switching current	4 (3) A
Dimensions (W x H x D)	173 x 90 x 80 mm
Degree of protection	IP20

Range overview RMU7..0B..

Analog outputs, number	Universal inputs, number	Relay outputs, number	Control loops, number	Stock no.	Product no.	Price (€)
2	6	2	1	BPZ:RMU710B-1	RMU710B-1	754.00
4	8	6	3	BPZ:RMU730B-1	RMU730B-1	1443.00
3	8	4	2	BPZ:RMU720B-1	RMU720B-1	1086.80

Standard controllers

Communicating HVAC controllers

Switching and monitoring device RMS705B..

RMS705B-1



Switching and monitoring device

The RMS705B-1 complements the range of Synco700 products as a freely configurable unit for

- control and supervisory functions in heating, ventilation and refrigeration plant
- non-standard applications

and, for this reason, offers no predefined standard applications.

The RMS705B-1 is especially suited for the following functions:

- Connection of additional universal alarm inputs
- Adding free inputs for display and supervision
- Event logging (e.g. legionella function)
- Additional time programs (ON / OFF) for basic functions
- Calculation of enthalpy, enthalpy differential, absolute humidity, dewpoint and wet bulb temperature
- Logic function blocks for switching on / off depending on different conditions
- Lead / lag control of pumps, fans, motors, etc., with automatic changeover
- Step switch with linear, binary or flexible functionality

The RMS705B-1 supports the languages: English, German, French, Italian, Spanish, Portuguese, Dutch, Danish, Finnish, Norwegian, Swedish, Polish, Czech, Hungarian, Russian, Slovak, Bulgarian, Greek, Romanian, Slovenian, Serbian, Croatian, Turkish, Chinese.

Extension modules complement the switching and monitoring device and offer extra functions. They are attached to the controller via plug-in connectors. The extension modules do not operate autonomously. The operation of the device from commissioning to enduser operation can be done via the operator unit.

Available extension modules:

- 1 universal module RMZ785
- 2 universal modules RMZ787
- 2 universal modules RMZ788

A total of 4 extension modules can simultaneously be used with the switching and monitoring device.

Available operator units:

- Plug-in operator unit RMZ790
- Detached operator unit RMZ791
- Bus operating unit RMZ792

Data sheet	N3124
Operating voltage	AC 24 V
Frequency	50/60 Hz
Power consumption	12 VA
Communication	KNX (KNX TP1)
Analog outputs, number	4
Analog output, signal	DC 0...10 V
Analog output, current	Max. 1 mA
Universal input, signal	T1 (PTC) Pt1000 Potential-free digital status contact LG-Ni1000 Digital pulse contact DC 0...10 V 2 x LG-Ni1000 0...1000 Ohm
Universal inputs, number	8
Relay outputs, number	6
Relay output, switching voltage	AC 19...250 V
Relay output, switching current	4 (3) A
Degree of protection	IP20
Dimensions (W x H x D)	173 x 90 x 80 mm

Stock no.	Product no.	Price (€)
S55370-C100	RMS705B-1	1072.50

Extension modules and operator units for RMU7..0B.. and RMS705B..

Plug-in type operator unit

RMZ790

- Operator unit plugs into the Synco™ 700 controllers
- For displaying and changing plant data for service staff and enduser
- Clear-text operation
- Can be plugged in and removed during operation
- Power supply via the controller



Data sheet

N3111

	Stock no.	Product no.	Price (€)
	BPZ:RMZ790	RMZ790	288.60

Room unit with KNX bus

QAW740

Configurable unit with display of operating mode, timer, temperatures and fault.

With 3 operating elements:

- Knob for setpoint readjustments
- Operating mode button
- Timer button



Data sheet	N1633
Voltage supply	KNX bus
Measuring range, temperature	0...45 °C
Setpoint readjustment range	±3 K
Communication	KNX (KNX TP1)
Connection cable	2-wire
Degree of protection	IP20
Dimensions (W x H x D)	96 x 96 x 47 mm
Weight (net)	0.22 kg

	Stock no.	Product no.	Price (€)
	BPZ:QAW740	QAW740	230.10

Detached operator unit with 3 m cable

RMZ791

Like plug-in type operator unit, but:

- Other mounting choices (typically for control panel door or wall mounting)
- Larger display
- Connection via a prefabricated 3 m cable, supplied as standard



Data sheet

N3112

	Stock no.	Product no.	Price (€)
	BPZ:RMZ791	RMZ791	431.60

Standard controllers

Communicating HVAC controllers

Extension modules and operator units for RMU7..0B.. and RMS705B..

RMZ792

Bus operator unit



Communicating operator unit for operating up to 150 controllers, room units and central units from the Synco™ 700 range via KNX bus.

Favorite pages can be freely defined. Designed for fixed installation or mobile use.

Data sheet	N3113
Operating voltage	AC 24 V
Voltage supply	KNX bus
Power consumption	2.5 VA
Degree of protection	IP20
Dimensions (W x H x D)	145 x 96 x 34 mm

Stock no.	Product no.	Price (€)
BPZ:RMZ792	RMZ792	1194.70

RMZ780

Module connector



Module connector for detached mounting of extension modules within the control panel.

Data sheet	N3138
Max. cable length	10 m
Dimensions (W x H x D)	18.5 x 87.5 x 22.5 mm

Stock no.	Product no.	Price (€)
BPZ:RMZ780	RMZ780	193.70

Standard controllers

Communicating HVAC controllers

Extension modules and operator units for RMU7..0B.. and RMS705B..

Universal modules

RMZ78..



Additional inputs and outputs required by the Synco™ 700 controllers can be provided by these modules. A description of the functions is given with the relevant controller module.

Data sheet	N3146
Voltage supply	Supply from controller module
Power consumption	3 VA
Analog output, signal	DC 0...10 V
Analog output, current	Max. 1 mA
Universal input, signal	0...1000 Ohm 1000...1175 Ohm DC 0...10 V Potential-free digital status contact LG-Ni1000 Pt1000 T1 (PTC) 2 x LG-Ni1000
Relay outputs	switching contact, potential-free
Relay output, switching voltage	AC 19...265 V
Relay output, switching current	4 (3) A
Degree of protection	IP20
Dimensions (W x H x D)	117 x 90 x 75 mm

Range overview RMZ78..

Universal- inputs, number	Analog outputs, number	Relay outputs, number	Weight (net) [kg]	Stock no.	Product no.	Price (€)
6	2	4	0.359	BPZ:RMZ789	RMZ789	581.10
8	0	0	0.3	BPZ:RMZ785	RMZ785	339.30
4	0	4	0.334	BPZ:RMZ787	RMZ787	339.30
4	2	2	0.322	BPZ:RMZ788	RMZ788	482.30

Standard controllers

Communicating HVAC controllers

Field devices for RMU7..0B.. and RMS705B..

Sensors, setpoint adjusters

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Duct sensor for air velocity	N1932	BPZ:QVM62.1	QVM62.1	378.59
Differential pressure sensors for liquids and gas (0...10 V)	N1922	BPZ:QBE3000..	QBE3000..	
Differential pressure sensor for liquids and gases	N1923	BPZ:QBE61.3-DP..	QBE61.3-DP..	
Active setpoint adjuster 0...100 %, for flush panel mounting	N1992	BPZ:BSG61	BSG61	91.00
Outside sensor LG-Ni1000	N1811	BPZ:QAC22	QAC22	41.27
Strap-on temperature sensor LG-Ni1000	N1801	BPZ:QAD22	QAD22	47.82
Immersion temperature sensor 100 mm LG-Ni1000, with protection pocket	N1781	BPZ:QAE2120.010	QAE2120.010	95.76
Immersion temperature sensor 150 mm, LG-Ni1000, with protection pocket	N1781	BPZ:QAE2120.015	QAE2120.015	100.87
Immersion temperature sensor 100 mm, LG-Ni1000, without protection pocket	N1781	BPZ:QAE2121.010	QAE2121.010	76.37
Cable temperature sensor for high-temperature applications (180°C)	N1833	BPZ:QAP21.2	QAP21.2	74.67
Cable temperature sensor silicone 1.5 m, LG-Ni1000	N1831	BPZ:QAP21.3	QAP21.3	58.56
Cable temperature sensor PVC 2 m, LG-Ni1000	N1831	BPZ:QAP22	QAP22	26.59
Duct sensor for humidity (DC0...10 V)	N1864	BPZ:QFM2100	QFM2100	269.86
Duct sensor for humidity (0...10 V) and temperature (Ni1000)	N1864	BPZ:QFM2120	QFM2120	298.68
Duct sensor for humidity (DC0...10 V) and temperature (DC0...10 V)	N1864	BPZ:QFM2160	QFM2160	282.96
Duct sensor for humidity (DC0...10 V) for demanding requirements	N1882	BPZ:QFM3100	QFM3100	398.24
Duct sensor for humidity (0...10 V) and temperature (0...10 V) with calibration certificate	N1883	BPZ:QFM4160	QFM4160	1152.80
Solar sensor	N1943	BPZ:QLS60	QLS60	730.98
Strap-on temperature sensor with cable LG-Ni1000	N1802	BPZ:QAD26.220	QAD26.220	50.04
Window pane temperature sensor	N1830	BPZ:QAT22	QAT22	175.54
Immersion temperature sensor 100 mm DC0...10 V	N1782	BPZ:QAE2164.010	QAE2164.010	186.02
Immersion temperature sensor 150 mm DC0...10 V	N1782	BPZ:QAE2164.015	QAE2164.015	195.19
Immersion temperature sensor Ø 4 mm with cable and fitting	N1790	BPZ:QAE26.9..	QAE26.9..	
Duct air quality sensor CO ₂ / temperature / rel. humidity / VOC	N1962	BPZ:QPM21..	QPM21..	
Flue gas temperature sensor Pt1000	N1846	BPZ:FGT-PT1000	FGT-PT1000	576.40
Outside/room temperature sensor DC0...10 V	N1814	BPZ:QAC3161	QAC3161	146.72
Duct temperature sensor 400 mm, Pt1000	N1761	BPZ:QAM2112.040	QAM2112.040	79.12
Duct temperature sensor 400 mm, LG-Ni1000	N1761	BPZ:QAM2120.040	QAM2120.040	89.74
Duct temperature sensor 2000 mm, LG-Ni1000	N1761	BPZ:QAM2120.200	QAM2120.200	168.99
Duct temperature sensor 6000 mm, LG-Ni1000	N1761	BPZ:QAM2120.600	QAM2120.600	260.69
Duct sensor for humidity (DC0...10 V) and temperature (DC0...10 V) for demanding requirements	N1882	BPZ:QFM3160	QFM3160	420.51
Immersion temperature sensor 150 mm LG-Ni1000, without protection pocket	N1781	BPZ:QAE2121.015	QAE2121.015	81.22
Differential pressure sensors for liquids and gas (DC0...10 V)	N1920	BPZ:QBE63-DP..	QBE63-DP..	
Setpoint adjuster, passive, scale 0...50 °C (exchangeable)	N1991	BPZ:BSG21.1	BSG21.1	73.06
Setpoint adjuster, passive, temperature ranges: -20...20 °C; 20...60 °C; -3...3 K	N1991	BPZ:BSG21.5	BSG21.5	77.87
Frost detector, modulating	A6V10432020	BPZ:QAF63..J	QAF63..J	
Frost detector, air side, 2-point	A6V10432022	BPZ:QAF64..J	QAF64..J	
Differential pressure sensor, DC0...10 V	N1910_01	BPZ:QBM2030..	QBM2030..	
Duct air quality sensor CO ₂ / temperature / rel. humidity / VOC; Modbus	A6V11610641	BPZ:QPM21..-MO	QPM..-MO	

Monitors

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Frost monitor, 2-point, capillary tube 6000 mm, -10...+15 °C	A6V11965899	S55700-P162	QAF65.6M-J	183.40
Frost monitor, 2-point	N1284	BPZ:QAF81..	QAF81..	
Differential pressure monitor	N1552	BPZ:QBM81..	QBM81..	
Safety limit thermostat	N1204	BPZ:RAK-ST..M	RAK-ST..M	

Standard controllers

Communicating HVAC controllers

Field devices for RMU7..0B.. and RMS705B..

Monitors

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Temperature controller/ safety limit thermostat	N1214	BPZ:RAZ-ST..J	RAZ-ST..J	
Temperature controller/ thermal reset limit thermostat	N1212	BPZ:RAZ-TW.1..J	RAZ-TW.1..J	
Room hygrostat, setpoint setting range 30...90 % r.h., setpoint adjuster inside device	N1518	BPZ:QFA1000	QFA1000	99.56
Room hygrostat, setpoint setting range 30...90 % r.h., external setpoint adjustment	N1518	BPZ:QFA1001	QFA1001	101.26
Duct hygrostat, setpoint setting range 15...95 % r.h.	N1514	BPZ:QFM81.2	QFM81.2	243.66
Room hygrostat, setpoint setting range 15...95 % r.h., setpoint adjuster inside device	N1514	BPZ:QFM81.21	QFM81.21	322.26
Thermal reset limit thermostat	N1202	BPZ:RAK-TW.1..H	RAK-TW.1..H	
Temperature controller	N1205	BPZ:RAK-TR.1..H	RAK-TR.1..H	
Temperature limiter	N1206	BPZ:RAK-TB.1..M	RAK-TB.1..M	
Frost detector, air side, 2-point	A6V10432022	BPZ:QAF64..J	QAF64..J	
Condensation monitor	A6V10741072	BPZ:QXA21..	QXA21..	

Room units / sensors

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Base module with KNX for temperature and humidity measurement	N1411	BPZ:AQR2570..	AQR2570..	
Room air quality sensor CO ₂ / temperature / rel. Humidity / VOC	N1961	BPZ:QPA20..	QPA..	
Front module with passiv temperature measurement, LG-Ni1000	N1408	S55720-S133	AQR2531ANW	53.45
Front module for base modules, temperature (active)	N1411	S55720-S136	AQR2532NNW	46.77
Room temperature sensor LG-Ni1000	N1721	BPZ:QAA24	QAA24	51.35
Room sensor for humidity (DC 0...10 V) and temperature (LG-Ni1000)	N1857	BPZ:QFA2020	QFA2020	263.31
Room sensor KNX for temperature, white	N1602	S55624-H103	QMX3.P30	110.25
Room sensor KNX for temperature and humidity, white	N1602	S55624-H116	QMX3.P40	140.00
Room sensor KNX for temperature, humidity, CO ₂ , white	N1602	S55624-H104	QMX3.P70	522.50
Room sensor for humidity (DC 0...10 V)	N1857	BPZ:QFA2000	QFA2000	256.76
Room sensor for humidity (DC 0...10 V) for demanding requirements	N1858	BPZ:QFA3100	QFA3100	398.24
Indoor air quality controller with integrated VOC sensor for mixed gas	N1571	BPZ:QPA84	QPA84	163.75
Room unit with room temperature sensor and setpoint adjuster	N1721	BPZ:QAA25	QAA25	116.59
Room unit with room temperature sensor and setpoint readjuster -3...3 K	N1721	BPZ:QAA27	QAA27	116.59
Room unit with KNX bus	N1633	BPZ:QAW740	QAW740	230.10
Room sensor for humidity (DC 0...10 V) and temperature (DC 0...10 V)	N1857	BPZ:QFA2060	QFA2060	271.17
Room sensor for humidity (DC 0...10 V) and temperature (DC 0...10 V) for demanding requirements	N1858	BPZ:QFA3160	QFA3160	420.51
Room sensor for humidity (DC 0...10 V) and temperature (DC 0...10 V) with calibration certificate	N1859	BPZ:QFA4160	QFA4160	1152.80
Mounting plates for front modules with passiv temperature measurement	N1408	BPZ:AQR2500..	AQR2500..	

Step switches, signal converter and transformers

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Variable Speed Drive for pumps and fans, IP55, Filter B (C1)	N5111	BPZ:G120P..AM..B..	G120P..AM..B..	
Transformers	N5536	BPZ:SEM62..	SEM62..	
Universal digital indicator	N5312	BPZ:BAU200	BAU200	352.30
Current valve	N4938	S55376-C160	SEA45.5	221.00
Signal converter DC 0...10 V or DC 0 / 10 V in AC 0 / 24 V	N5102	BPZ:SEM61.4	SEM61.4	179.40
Signal converter with preprogrammed applications	N5146	BPZ:SEZ220	SEZ220	439.40
Variable Speed Drive for pumps and fans, IP55, Filter A (C2)	N5111	BPZ:G120P..AM..A..	G120P..AM..A..	
Variable Speed Drive for pumps and fans, IP20, Filter B (C1)	N5111	BPZ:G120P..AE..B..	G120P..AE..B..	
Variable Speed Drive for pumps and fans, IP20, Filter A (C2)	N5111	BPZ:G120P..AE..A..	G120P..AE..A..	

Standard controllers

Communicating HVAC controllers

Field devices for RMU7..0B.. and RMS705B..

Service tool

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Service tool for KNX / LPB	N5655	BPZ:OCI700.1	OCI700.1	904.80
USB - KNX Service interface	A6V10438951	S55800-Y101	OCI702	540.80
Web server for Synco devices	N5701	BPZ:OZW772..	OZW772..	

The software (ACS790) can be downloaded for free via <http://www.siemens.com/acs790>.

Current valve

SEA45.5

Current valve for AC 24 V pulse/pause control
of electrical loads up to 30 kW

Mounting & local electrical regulations to be considered

SEA45.5 Current valve

Data sheet	N4938
Operating voltage	AC 24 V
Frequency	50/60 Hz
Power consumption	0.24 VA
Degree of protection	IP20
Dimensions (W x H x D)	35.6 x 110 x 136 mm



	Stock no.	Product no.	Price (€)
	S55376-C160	SEA45.5	221.00

Signal converter DC 0...10 V or DC 0 / 10 V in AC 0 / 24 V

SEM61.4

For converting a DC 0...10 V or DC 0 / 10 V input signal to a pulse-width modulated output signal AC 24 V
for the control of maximum 20 current valves

Data sheet	N5102
Operating voltage	AC 24 V
Frequency	50/60 Hz
Power consumption	1 VA
Analog input, signal	DC 0...10 V
Digital input, contact query	DC 0/10 V
Degree of protection	IP20
Dimensions (W x H x D)	36 x 90 x 60 mm



	Stock no.	Product no.	Price (€)
	BPZ:SEM61.4	SEM61.4	179.40

Standard controllers

Various electrical accessories

Interfaces

SEZ220



Signal converter with preprogrammed applications

- Maximum and minimum selection
- Calculation of average
- Calculation of enthalpy, enthalpy differential, absolute humidity, dewpoint
- Flexible adaptation, limitation, inversion and conversion of input signal
- Tested preselected applications
- Flexible configuration

Data sheet	N5146
Operating voltage	AC 24 V
Frequency	50/60 Hz
Power consumption	5 VA
Analog outputs, number	2
Analog output, signal	DC 0...10 V
Analog output, current	Max. 1 mA
Universal inputs, number	5
Universal input, signal	0...1000 Ohm DC 0...10 V LG-Ni1000 Pt1000 T1 (PTC) 2 x LG-Ni1000
Degree of protection	IP20
Dimensions (W x H x D)	123 x 90 x 86 mm

Stock no.	Product no.	Price (€)
BPZ:SEZ220	SEZ220	439.40

SEZ91.6



Signal converter DC 0...20 V Phs to DC 0...10 V

For the conversion of DC 0...20 VPh signals
to DC 0...10 V signals

Data sheet	N5143
Operating voltage	AC 24 V
Frequency	50/60 Hz
Power consumption	0.5 VA
Analog input, signal	DC 0...20 V Phs
Analog output, signal	DC 0...10 V
Degree of protection	IP20
Dimensions (W x H x D)	57 x 22 x 18 mm

Stock no.	Product no.	Price (€)
BPZ:SEZ91.6	SEZ91.6	119.73

Power amplifier for thermal actuators AC 24 V, PWM

UA1T

The UA1T power amplifier is used to allow the connection of additional valve actuators to controllers with an AC 24 V output signal.



Indoor use

Data sheet	N3591
Operating voltage	AC 24 V
Current consumption	15 A
Digital outputs	AC 24V PWM, for max. 2x2 therm. Fan
Universal input, signal	AC 24 V
Weight (incl. packaging)	0.42 kg
Dimensions (W x H x D)	55 x 18 x 22 mm

	Stock no.	Product no.	Price (€)
	BPZ:UA1T	UA1T	97.89

Standard controllers

Various electrical accessories

Setpoint adjuster

BSG21..



Passive setpoint adjusters, for flush panel mounting

Setpoint adjuster for flush panel mounting 48 x 48 mm, with 2 adjustable stops for setpoint limitation. With transparent plastic cover and scales according to the temperature ranges.

Data sheet

N1991

Degree of protection

IP42

Range overview BSG21..

Temperature range	Analog output, signal	Stock no.	Product no.	Price (€)
Various	0...1000 Ohm	BPZ:BSG21.1	BSG21.1	73.06
-20...20 °C	LG-Ni1000	BPZ:BSG21.5	BSG21.5	77.87
20...60 °C				
-3...3 K				

For BSG21.1: Scale 0...50 °C included as standard. For additional scales (BSG-Z) please contact your local Siemens branch.

BSG61



Active setpoint adjuster 0...100 %, for flush panel mounting

Setpoint adjuster for flush panel mounting 48 x 48 mm, with 2 adjustable stops, for setting or limiting a setpoint or positioning signal. With transparent front cover and exchangeable scales, depending on requirements. Supplied with 0... 100 % scale (for additional scales (BSG-Z) please contact your local Siemens branch).

Data sheet

N1992

Operating voltage

AC 24 V

DC 15...24 V

Power consumption

0.3 W

Analog output, signal

DC 0...10 V

Degree of protection

IP42

Dimensions (W x H x D)

48 x 48 x 46 mm

Analog input, signal

DC 0...10 V

Ambient temperature, operation

-5...55 °C

Type of fixing

Mounting in a control panel front, control desk or on a concealed conduit box (on the cover plate)

Stock no.	Product no.	Price (€)
BPZ:BSG61	BSG61	91.00

Universal digital indicator

BAU200

Universal single point digital indicator

- Suitable for front-mounting in control panel
- With LED display
- Input signal (type of signal and measuring range) can be set with buttons
- For all Siemens Building Technologies sensors (LG-Ni 1000, T1, PT100, PT 1000, 0 ... 10 V)



Data sheet

N5312

Analog input, signal

DC 0...10 V

LG-Ni1000

Pt100

Pt1000

T1 (PTC)

Analog output, signal

DC 0...10 V

	Stock no.	Product no.	Price (€)
	BPZ:BAU200	BAU200	352.30

Standard controllers

Various electrical accessories

Time switches

SEH62.1



Digital time switch, 1-channel, with 7-day program

Programmable as 24-hour or 7-day time switch. Wall or DIN rail mounting.

Data sheet	N5243
Operating voltage	AC 230 V
Power consumption	3 VA
Frequency	50/60 Hz
Buffer time	72 h
Display	LCD
Digital input, contact query	8 mA
	DC 24 V
Degree of protection	IP20
Dimensions (W x H x D)	79 × 106 × 56 mm

	Stock no.	Product no.	Price (€)
	BPZ:SEH62.1	SEH62.1	84.63

Transformers

SEM62..

Transformer with housing, providing a reduction in voltage from AC 230 V to AC 24 V (output power 30 VA)

- Self-resetting fuse integrated on the primary side
- Secondary On/Off switch and replaceable fuse (SEM62.2 only)
- Plug-in screw terminals
- Two secondary output plug-in terminals



Data sheet	N5536
Primary voltage	AC 230 V
Secondary voltage	AC 24 V
Output rating	30 VA
Degree of protection	IP20
Dimensions (W x H x D)	114 x 106 x 57 mm

Range overview SEM62..

Product Title	Stock no.	Product no.	Price (€)
Transformer	BPZ:SEM62.1	SEM62.1	47.19
Transformer with switch and replaceable fuse	BPZ:SEM62.2	SEM62.2	54.99