

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 climate control functions: a fan, wavy lines for heat, a sun, a snowflake, a thermometer, and a hand pointing at a screen.

SIEMENS

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QBM68.2500D	Differential pressure sensor for air and non-aggressive gases	N1910.1	269.86	102
QBM68.2512	Differential pressure sensor for air and non-aggressive gases	N1910.1	248.23	102
QBM68.2512D	Differential pressure sensor for air and non-aggressive gases	N1910.1	321.36	102
QBM68.2525	Differential pressure sensor for air and non-aggressive gases	N1910.1	231.75	102
QBM68.7070D	Differential pressure sensor for air and non-aggressive gases	N1910.1	361.53	102
QBM69.1212	Differential pressure sensor for air and non-aggressive gases	N1910.2	237.93	103
QBM69.2512	Differential pressure sensor for air and non-aggressive gases	N1910.2	255.44	103
QBM69.2525	Differential pressure sensor for air and non-aggressive gases	N1910.2	243.08	103
QBM81-10	Differential pressure monitor, 100...1000 Pa	N1552	84.50	109
QBM81-20	Differential pressure monitor, 500...2000 Pa	N1552	84.50	109
QBM81-3	Differential pressure monitor, 20...300 Pa	N1552	84.50	109
QBM81-5	Differential pressure monitor, 50...500 Pa	N1552	84.50	109
QBM81-50	Differential pressure monitor, 1000...5000 Pa	N1552	84.50	109
QBM9710/109C	Modus air pressure sensor with I/O extension, 1 x 1250 Pa	A6V11478118	230.00	108
QBM9711/109C	Modus air pressure sensor with I/O extension, 1 x 1250 Pa & 1 x 1250 Pa	A6V11478118	281.25	108
QFA1000	Room hygrostat, setpoint setting range 30...90 % r.h., setpoint adjuster inside device	N1518	99.56	88
QFA1001	Room hygrostat, setpoint setting range 30...90 % r.h., external setpoint adjustment	N1518	101.26	88
QFA2000	Room sensor for humidity (DC 0...10 V)	N1857	256.76	82
QFA2001	Room sensor for humidity (DC 4...20mA)	N1857	256.76	82
QFA2020	Room sensor for humidity (DC 0...10 V) and temperature (LG-Ni1000)	N1857	263.31	82
QFA2060	Room sensor for humidity (DC 0...10 V) and temperature (DC 0...10 V)	N1857	271.17	82
QFA2060D	Room sensor for humidity (DC 0...10 V) and temperature (DC 0...10 V), with digital Display	N1857	334.05	82
QFA2071	Room sensor for humidity (DC 4...20mA) and temperature (DC 4...20mA)	N1857	271.17	82
QFA3100	Room sensor for humidity (DC 0...10 V) for demanding requirements	N1858	398.24	83
QFA3101	Room sensor for humidity (4...20 mA) for demanding requirements	N1858	398.24	83
QFA3160	Room sensor for humidity (DC 0...10 V) and temperature (DC 0...10 V) for demanding requirements	N1858	420.51	83
QFA3160D	Room sensor for humidity (DC 0...10 V) and temperature (DC 0...10 V) for demanding requirements, with display	N1858	484.70	83
QFA3171	Room sensor for humidity (4...20 mA) and temperature (4...20 mA) for demanding requirements	N1858	420.51	83
QFA3171D	Room sensor for humidity (4...20 mA) and temperature (4...20 mA) for demanding requirements, with display	N1858	484.70	83
QFA4160	Room sensor for humidity (DC 0...10V) and temperature (DC 0...10V) with calibration certificate	N1859	1152.80	84
QFA4160D	Room sensor for humidity (DC 0...10V) and temperature (DC 0...10V) with calibration certificate, with display	N1859	1230.09	84
QFA4171	Room sensor for humidity (4...20mA) and temperature (4...20mA) with calibration certificate	N1859	1152.80	84
QFA4171D	Room sensor for humidity (4...20mA) and temperature (4...20mA) with calibration certificate, with display	N1859	1230.09	84
QFM1660	Duct sensor for humidity (0...10 V) and temperature (0...10 V)	Q3731	197.81	89

Type Overview

Product no.	Product Title	Data sheet	Price (€)	Page
QFM2100	Duct sensor for humidity (DC 0...10 V)	N1864	269.86	89
QFM2101	Duct sensor for humidity (DC 4...20 mA)	N1864	269.86	89
QFM2120	Duct sensor for humidity (0...10 V) and temperature (Ni1000)	N1864	298.68	89
QFM2150/MO	Duct sensor for humidity and temperature Modbus	A6V11610635	305.23	89
QFM2160	Duct sensor for humidity (DC 0...10 V) and temperature (DC 0...10 V)	N1864	282.96	89
QFM2160U			212.00	89
QFM2171	Duct sensor for humidity (DC 4...20 mA) and temperature (DC 0...20 mA)	N1864	282.96	89
QFM3100	Duct sensor for humidity (DC 0...10 V) for demanding requirements	N1882	398.24	90
QFM3150/MO	Duct sensor for humidity and temperature for demanding requirements Modbus	A6V11610638	451.95	90
QFM3160	Duct sensor for humidity (DC 0...10 V) and temperature (DC 0...10 V) for demanding requirements	N1882	420.51	90
QFM3160D	Duct sensor for humidity (DC 0...10 V) and temperature (DC 0...10 V) for demanding requirements, with display	N1882	484.70	90
QFM3171	Duct sensor for humidity (4...20 mA) and temperature (0...20 mA) for demanding requirements	N1882	420.51	90
QFM3171D	Duct sensor for humidity (4...20 mA) and temperature (0...20 mA) for demanding requirements, with display	N1882	484.70	90
QFM4160	Duct sensor for humidity (0...10 V) and temperature (0...10 V) with calibration certificate	N1883	1152.80	91
QFM4171	Duct sensor for humidity (4...20 mA) and temperature (4...20 mA) with calibration certificate	N1883	1152.80	91
QFM81.2	Duct hygrostat, setpoint setting range 15...95 % r.h.	N1514	243.66	81
QFM81.21	Room hygrostat, setpoint setting range 15...95 % r.h., setpoint adjuster inside device	N1514	322.26	81
QLS60	Solar sensor	N1943	730.98	123
QPA1000	Room air quality sensor VOC	N1961	280.34	99
QPA1004	Room air quality sensor CO ₂	A6V101099173	366.80	100
QPA1064	Room air quality sensor CO ₂ / temperature	A6V101099173	451.95	100
QPA2000	Room air quality sensor CO ₂	N1961	482.08	99
QPA2002	Room air quality sensor CO ₂ +VOC	N1961	610.46	99
QPA2002D	Room air quality sensor CO ₂ +VOC with display	N1961	685.13	99
QPA2060	Room air quality sensor CO ₂ +temperature	N1961	588.19	99
QPA2060D	Room air quality sensor CO ₂ +temperature with display	N1961	661.55	99
QPA2062	Room air quality sensor CO ₂ +temperature+rel. air humidity	N1961	725.74	99
QPA2062D	Room air quality sensor CO ₂ +temperature+rel. air humidity with display	N1961	799.10	99
QPA84	Indoor air quality controller with integrated VOC sensor for mixed gas	N1571	163.75	99
QPM1100	Duct air quality sensor VOC	N1962	345.84	97
QPM1104	Duct air quality sensor CO ₂	A6V101101338	432.30	98
QPM1164	Duct air quality sensor CO ₂ / temperature	A6V101101338	510.90	98
QPM2100	Duct air quality sensor CO ₂	N1962	669.41	97
QPM2102	Duct air quality sensor CO ₂ +VOC	N1962	818.75	97
QPM2102D	Duct air quality sensor CO ₂ +VOC with display	N1962	892.11	97
QPM2152/MO	Duct air quality sensor CO ₂ +temperature+rel. air humidity Modbus	A6V11610641	927.48	98
QPM2160	Duct air quality sensor CO ₂ +temperature	N1962	741.46	97
QPM2160D	Duct air quality sensor CO ₂ +temperature with display	N1962	881.63	97
QPM2162	Duct air quality sensor CO ₂ +temperature+rel. air humidity	N1962	865.91	97
QPM2162D	Duct air quality sensor CO ₂ +temperature+rel. air humidity with display	N1962	940.58	97
QPM2180	Duct air quality sensor CO ₂ +temperature (passiv)	N1962	766.35	97
QSA2700	Fine dust sensor, 0-10V & Modbus	A6V11160938	471.60	101
QSA2700D	Fine dust sensor +display, 0-10V, Modbus	A6V11160938	537.10	101
QVE1900	Flow switch for use in hydraulic systems, PN10, DN32...200	N1592	203.05	120

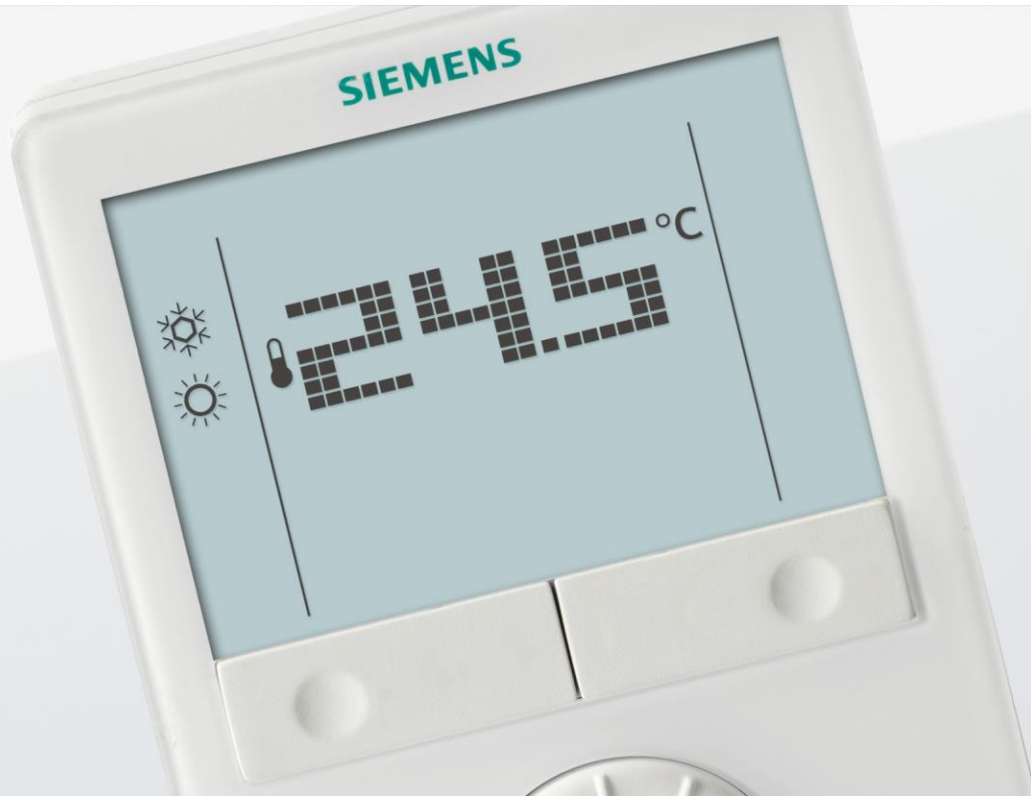
Product no.	Product Title	Data sheet	Price (€)	Page
QVE1901	Flow switch for use in hydraulic systems, PN25, DN20...200	N1594	162.44	120
QVE1902.010	Flow switch for liquids in piping DN 10	N1596	159.82	121
QVE1902.015	Flow switch for liquids in piping DN 15	N1596	159.82	121
QVE1902.020	Flow switch for liquids in piping DN 20	N1596	161.13	121
QVE1902.025	Flow switch for liquids in piping DN 25	N1596	165.06	121
QVM62.1	Duct sensor for air velocity	N1932	378.59	122
QXA2100	Condensation monitor	A6V10741072	144.10	92
QXA2101	Condensation monitor with remote sensor head (cable length 1 m)	A6V10741072	179.47	92
RAB11	Electromechanical room thermostat for 2-pipe fan coils, selector heating/cooling	N3015	37.99	24
RAB11.1	Electromechanical room thermostat for 2-pipe fan coils, selector heating/cooling/fan only	N3015	46.11	24
RAB21	Electromechanical room thermostat for 2-pipe fan coils, basic model	N3016	40.87	25
RAB31	Electromechanical room thermostat for 4-pipe fan coils, selector heating/cooling	N3017	44.28	25
RAB31.1	Electromechanical room thermostat for 4-pipe fan coils, selector heating/cooling/fan only	N3017	48.60	25
RAB91	Fan speed switch, 3-stage	N3018	19.52	24
RAK-ST.010FP-M	Safety temperature limiter fixed 95 °C, pocket 100 mm, capillary 700 mm	N1204	87.77	48
RAK-ST.020FP-M	Safety temperature limiter fixed 100 °C, pocket 100 mm, capillary 700 mm	N1204	114.89	48
RAK-ST.030FP-M	Safety temperature limiter fixed 110 °C, pocket 100 mm, capillary 700 mm	N1204	92.88	48
RAK-ST.1300P-M	Safety temperature limiter fixed 110...130 °C, pocket 100 mm, capillary 700 mm	N1204	100.74	48
RAK-ST.1310P-M	Safety temperature limiter fixed 90...110 °C, pocket 100 mm, capillary 700 mm	N1204	97.73	48
RAK-ST.1385M	Safety limit thermostat, 40...70 °C, capillary length 700 mm	N1204	119.47	54
RAK-ST.1430S-M	Safety temperature limiter fixed 80...100 °C, pocket 100 mm, capillary 700 mm	N1204	87.90	48
RAK-ST.1600MP	Safety limit thermostat, 95...130 °C, protection pocket 100 mm, capillary length 700 mm	N1204	131.00	54
RAK-TB.1400S-M	Temperature limiter, 45...60 °C, capillary 700 mm, clamping band	N1206	80.96	53
RAK-TB.1410B-M	Temperature limiter, 50...70 °C, pocket 100 mm, capillary 700 mm, clamping band	N1206	87.77	53
RAK-TB.1420S-M	Temperature limiter, 65...80 °C, capillary 700 mm, clamping band	N1206	92.88	53
RAK-TR.1000B-H	Temperature controller 15...95 °C, protection pocket 100 mm, capillary 700 mm, clamp on band	N1205	88.29	52
RAK-TR.1000S-H	Thermal reset limit thermostat, 15...95 °C, capillary tube 700 mm, clamping band	N1205	85.15	52
RAK-TR.1210B-H	Thermal reset limit thermostat, 15...82 °C, protective pocket 100 mm, capillary tube 700 mm, clamping band	N1205	84.50	52
RAK-TW.1000HB	Thermal reset limit thermostat, 15...95 °C, protection pocket 100 mm, capillary length 700 mm	N1202	87.77	48
RAK-TW.1000S-H	Thermal reset limit thermostat, 15...95 °C, capillary tube 700 mm, clamping band	N1202	84.50	51
RAK-TW.1200B-H	Thermal reset limit thermostat, 40...120 °C, protective pocket 100 mm, capillary tube 700 mm, clamping band	N1202	87.77	51
RAK-TW.1200HP	Thermal reset limit thermostat, 40...120 °C, protection pocket 100 mm, capillary length 700 mm	N1202	133.62	48
RAK-TW.1200S-H	Thermal reset limit thermostat, 40...120 °C, capillary tube 700 mm, clamping band	N1202	84.50	51
RAK-TW.5000HS	Frost protection monitor, 5...65 °C, capillary length 1600 mm	N1203	116.20	56
RAK-TW.5000S-H	Frost protection monitor 5...65 °C, capillary tube 1600 mm, clamping band	N1203	71.26	56

Type Overview

Product no.	Product Title	Data sheet	Price (€)	Page
RAK-TW.5010S-H	Frost protection monitor 10...50 °C, capillary tube 1600 mm, clamping band	N1203	70.09	56
RAM-TR.2000M	Strap-on temperature controller, 20...90 °C, fixing spring, setpoint adjuster externally	N1198	33.41	51
RAM-TW.2000M	Strap-on temperature limitation, 20...90 °C, fixing spring, setpoint adjuster internally	N1198	34.45	52
RAZ-ST.030FP-J	Temperature controller/ safety temperature limiter, TR 15...95 °C/ STB 110 °C, dual protection pocket 100 mm, capillary tube each 700 mm	N1214	187.33	49
RAZ-ST.1510P-J	Temperature controller/ safety temperature limiter, TR 15...95 °C/ STB 90...110 °C, dual protection pocket 100 mm, capillary tube each 700 mm	N1214	172.92	49
RAZ-TW.1000P-J	Temperature controller/ thermal limit reset thermostat, TR 15...95 °C/ TW 15...95 °C, dual protection pocket 100 mm, capillary tube each 700 mm	N1212	172.92	50
RAZ-TW.1200P-J	Temperature controller/ thermal limit reset thermostat, TR 40...120 °C/ TW 40...120 °C, dual protection pocket 100 mm, capillary tube each 700 mm	N1212	189.95	50
RCC10	Room thermostat for 2-pipe fan coils, AC 230 V, positioning signal 2 pt, return air sensor	N3021	101.39	26
RCC20	Room thermostat for 2-pipe fan coils, AC 230 V, positioning signal 2 pt, return air sensor, el. heater	N3022	109.39	27
RCC30	Room thermostat for 4-pipe fan coils, AC 230 V, positioning signal 2pt, return air sensor	N3023	109.39	27
RCU50.2	Room thermostat for VAV and CAV systems, AC 24 V, positioning signal DC0...10 V, manual changeover heating/cooling/off	N3045	128.51	36
RDF110	Room thermostat for 2-pipe fan coils or DX-type equipment, return air temperature sensor	N3057	115.41	32
RDF110.2	Room thermostat for 2-pipe fan coils or DX-type equipment	N3057	100.22	32
RDF302	Flush-mount room thermostat for rectangular conduit box with Modbus communications, 2-/4-pipe fan coils or DX type equipment	N3079	172.92	47
RDF302.B	Flush-mount basic room thermostat for rectangular conduit box with Modbus communications, 2-/4-pipe fan coils or DX type equipment	N3079	119.08	47
RDF302/VB	Flush-mount room thermostat for rectangular conduit box with Modbus communications, 2-/4-pipe fan coils or DX type equipment	N3079	172.92	47
RDF600	Flush-mount room thermostat for round conduit box for 2-/4-pipe fan coils or DX type equipment, backlit LCD	N3076	142.79	33
RDF600KN	Flush-mount room thermostat with KNX communications, 2-/4-pipe fan coils or DX type equipment	N3076	231.87	41
RDF600KN/S	Flush-mount room thermostat with KNX communications, 2-/4-pipe fan coils or DX type equipment, with KNX switching group, four buttons for switching lights and blinds	N3076	233.18	41
RDF600KN/VB	Flush-mount room thermostat with KNX communications, 2-/4-pipe fan coils or DX type equipment for both round and square conduit boxes, black	N3076	231.87	41
RDF600T	Flush-mount room thermostat for round conduit box, for 2-/4-pipe fan coils or DX type equipment, infrared remote control, 7-day time switch, backlit LCD	N3076	159.82	33
RDF800	Touch screen room thermostat for 2-/4- pipe fan coil, universal applications or compressors in DX-type equipment	N3174	171.61	34
RDF800KN	Touch screen room thermostat with KNX communications, for 2-/4- pipe fan coil, universal applications or compressors in DX-type equipment	N3174	275.10	42
RDF800KN/NF	Touch screen room thermostat with KNX communications, for 2-/4- pipe fan coil, universal applications or compressors in DX-type equipment (for China frames)	N3174	251.00	42
RDF800KN/VB	Touch screen room thermostat for 2-/4- pipe fan coil, universal applications or compressors in DX-type equipment , black	N3174	275.10	42
RDG100	Room thermostat, AC 230 V, for fan coil units and universal applications	N3181	163.75	28

Product no.	Product Title	Data sheet	Price (€)	Page
RDG100KN	Room thermostat with KNX communications, AC 230 V, for fan coil units and universal applications	N3191	256.76	39
RDG100T	Room thermostat, AC 230 V, for fan coil units and universal applications, 7-day time switch, vertical	N3181	188.64	31
RDG110	Room thermostat, AC 230 V, for fan coil units and heat pump applications	N3181	145.41	29
RDG160KN	Room thermostat with KNX communications, AC 24 V, for fan coil units and universal applications, heat pump, fan (1-/3-speed, DC), valves (2-point, DC)	N3191	273.79	38
RDG160T	Room thermostat, AC 24 V, for fan coil units (3-speed or ECM fan), universal applications and heat pump applications. 7-day time switch. Outputs DC 0..10V or ON/OFF	N3181	200.43	30
RDG165KN	Room thermostat with KNX communications and built-in humidity sensor and humidity control, AC 24 V, for fan coil units and universal applications, heat pump, fan (1-/3-speed, DC), valves (2-point, DC)	N3191	327.50	40
RDG200KN	KNX communicating room thermostat. Outputs modulating (PWM / 3-pos.) or on/off. Fan coil (3-speed / DC fan), universal applications	A6V11545853	288.20	44
RDG260KN	KNX communicating room thermostat. Outputs modulating (DC) or on/off. Fan coil (3-speed / DC fan) or universal applications	A6V11545853	288.20	45
RDG400	Room thermostat, AC 24 V, VAV heating and cooling systems	N3182	179.47	35
RDG405KN	Room thermostat for temperature and air quality control with KNX communications, AC 24 V, VAV heating and cooling systems	N3192	276.41	46
RDS110	Smart Room Thermostat	A6V10807602	353.70	21
RDS110.R	Smart Thermostat Wireless	A6V11562461	353.70	22
RDS120	Smart Room Thermostat	A6V10807603	374.66	20
REV13	Room thermostat with 2-point control and 24-hour time switch, batteries, only heating	N2201	137.55	23
REV24	Room thermostat with 2-point control and 7-day time switch, batteries, heating and cooling	N2205	161.13	23
REV24RF/SET	Room thermostat with 2-point control and 7-day time switch, receiver with relay outputs (RF set), batteries, heating or cooling	N2206	348.46	23
REV34-XA	Room thermostat with 3-position control and 7-day time switch, batteries, heating and cooling	N2208	298.68	23
TKM2	Thermal reset limit thermostat for air ducts, 20...110 °C; perforated protection pocket 200mm	N1291	328.81	50
TRG2	Room thermostat with helix sensor, TR-5..50 °C	N1329	252.83	59
TRG22	Room thermostat with helix sensor, TR-5..50 °C, 2 switches on 2 steps 2..12 K difference	N1329	475.53	59

Thermostats



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	Fan coils	24
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Thermostats

Overview and selection tools

Room thermostats

Siemens is a leading supplier of room temperature controllers for a wide range of heating, ventilation and cooling applications in residential buildings, hotels, office and commercial buildings.

Siemens solutions meet every budget: Basic electromechanical on/off units, OpenTherm, RF-based or with infrared remote control, as well as thermostats with modulating outputs. Programmable thermostats with 24-hour or 7-day programs and non-programmable room temperature thermostats are available as analog or digital products with displays.

Quality, reliability, outstanding functionality, ease of installation and use: Our room controls satisfy your needs. The unique and acclaimed Siemens design is an additional stylish feature.

Proudly made around the world.

- Quality really is the issue
- Product lifecycles and environment in partnership
- Standards are not negotiable

Heating / Cooling applications

	Basic		With display					With time switch					
													
Type	RAA	RCU	RDD	RDD 310/EH	RDD810..	RDH	RDF800..	RDE	RDE 410/EH	RDG	RDJ	REV	RDS
Housing													
Setpoint knob	□	■				★				■	★		
Setpoint buttons			■	■				■	■			■	
Landscape format design										□			
LED indicators	□												
Digital display			★	★	■	■	■	■	✱	✱	■	■	■
Programming slider											■	★	
Touch screen					★		★						★
Wiring													
Mains-independent	★												
Battery-powered			□					□			■	■	
Mains-powered	□	■	□	■	■	*	■	□	■	□	*	*	■
Radio frequency transmission						□					□	□	
Modulating heating valve control		★								□		□	
Remote control input												■	
Analog output	□	□								□			
Relay output	■		■	■	■	■	■	■	■	□	■	■	■
Functionalities													
Heating plants	■	■	■	■	■	■	■	■	■	■	■	■	■
Cooling plants	■	■		■			■		■	■		□	
Domestic hot water control			□					□					■
Humidity control													★
Remote operation (Mobile App)													★
Time switch	Daily												
	Weekly							★	■	□	■	□	■
Operating mode	Comf. mode	■	■	■	■	■	■	■	■	■	■	■	■
	Eco mode		■	■	■		■	■	■	■	■	■	■
	Standby.		■		■		■	■	■	■			■
	Frost protect.			■	■	■		■	■	■	■	■	■
Holidays								■				□	
Control loop	2-point	2-point/ PI	2-point	2-point	2-point	TPI	2-point/ PI	2-point	2-point	2-point/ PI	TPI	2-point/ PID or PI	2-point/ PID
KNX-Communication					■		■						

■ Valid for all variants □ Depending on variants

★ Main feature

* Radio frequency receiver only

RDD810KN.. only compatible with chinese frames

Fan-coils application

	Basic		With display				With time switch		
									
Type	RAB	RCC	RDG1xx	RDF3xx RDF600..	RDF5...	RDF800..	RDG1..T	RDG100T/H	RDF600T
Housing									
Setpoint knob	■	■	■	■	■	■	■	■	■
LED indicators	□	✱	■	■	■	■	■	■	■
Digital display			✱	■	■	■	■	■	■
Auto fan speed			■	■	■	■	■	■	■
Flush mounting				✱	✱	■			✱
Touch screen						✱			
Wiring									
Mains-independent	✱								
Mains-powered		■	□	□	■	■	□	■	■
Multifunctional input			■	□		■	■	■	□
Sensor input		□	■	□		■	■	■	□
Changeover input		■	■	□		■	■	■	□
Analog output			□	□			□		
Relay output (on/off)	■	□	□	□	■	■	□		■
Triac 2-p/3-p/PWM			□				□	■	
ECM-Fan			□				□		
Functionalities									
2-pipe-system	□	□	■	■	□	■	■	■	■
4-pipe-system	□	□	■	□	□	■	■	■	□
Electric heater		□	□	□		■	■	■	□
Radiator			■			■	■	■	
Humidity control			□						
Time switch weekly							✱	✱	✱
Operating mode									
Comfort	■	■	■	■	■	■	■	■	■
Economy		■	■	■		■	■	■	■
Standby/Prot.	□	■	■	■	■	■	■	■	■
Frost protect.		□	■	■		■	■	■	■
Control loop	2-point	2-point/PI	2-point/PI	2-point/PI	2-point	2-point/PI	2-point/PI	2-point/PI	2-point/PI
Infrared remote control				□			■	■	□
KNX-Communication			□	□					

Heat Pumps applications

	With display		With time switch	
				
Type	RDG110 / RDG160...	RDF3xx / RDF600..	RDF600T	RDG160T
Housing				
Digital display	■	■	■	■
Fan speed command	- / 1 / 3 / DC	1 / 3	1 / 3	- / 1 / 3 / DC
Wiring				
Mains-powered	■	■	■	■
Sensor input	■	■	■	■
Relay output	■	■	■	■
Functionalities				
Electric heater	■	■	■	■
DX compressor	■	□	□	■
Manuel Heat / Cool changeover	■	■	■	■
Weekly time clock			■	
Operating mode				
Comf. mode	■	■	■	■
Eco mode	■	■	■	■
Standby.	■	■	■	■
Frost protect.	■	■	■	■
Control loop	2-point	2-point	2-point	2-point
KNX-communication	□	□		

■ Valid for all variants □ Depending on variants ✱ Main feature

Thermostats

Overview and selection tools

VAV applications			
	Basic	With display	
			
Type	RCU5x	RDU34..	RDG40..
Housing			
Setpoint knob	■		■
Digital display		■	■
Semi-flush mounting		■	
Wiring			
Mains-powered	■	■	■
Sensor input		■	■
Changeover input	□	■	■
Analog output	■	■	■
Relay output		■	
Functionalities			
Indoor air quality			□
Manual Heat / Cool changeover	□	■	■
External setpoint shift	□		
Vmin Cooling	■	■	■
Operating mode			
Comf. mode	■	■	■
Eco mode	■	■	■
Sandby/Prot.	■	■	■
Frost protect.	■	■	■
Control loop	2-point	P/PI	P/PI
KNX-communication		□	□

■ Valid for all variants □ Depending on variants

Overview																																
Type	Function				Setting range	Capillary length [mm]	Switching cap. AC 24...250 V		Approvals					IP	Set		Sensor element / mounting			Applications 4)												
	Control thermostat (TR)	Thermal reset limit thermostat (TW)	Limit thermostat (TB)	Safety limit thermostat (STB)	TR / TW: Set point [°C] TB / STB: Setpoint cut-out temperature [°C]		1 - 2: 10 (2,5) A 1 - 3: 6 (2,5) A [TB / STB: 0,5 A]	1 - 2: 16 (2,5) A 1 - 3: 6 (2,5) A [STB: 2 (0,5) A]	CE (73/23/EEC, 89/336/EEC, EN60730)	ENEC (European Norms Elec. Certif.)	PED (Pressure Equipment Directive)	EN14597 (old approval: DIN3440)	IPESL	C-Tick	Degree of protection (IP)	Pocket ALT-SB100 / ALT-DB100 (length mm)	Clamping band for piping up to Ø 105 mm	Clamping spring for piping Ø 9,5... 16 mm	Remote line – Sensor with capillary line	Surface thermostat – Sensor attached to housing	Ductwork – The entire capillary as sensor (at least 30 cm for detection)	Immersion – immersion sensor	Room thermostat – Helix sensor	Temperature control	Temperature limitation	Frost protection	Air conditioning	Heating boilers	Domestic hot water heating	Heat exchangers	Floor heating	
RAK-ST.020FP-M				■	100	700	■		■	■	■	■	■	■	43	100			■	■		■					■					
RAK-ST.030FP-M				■	110	700	■		■	■	■	■	■	■	43	100			■	■		■					■					
RAK-ST.1430S-M				■	80...100	1600	■		■	■	■	■	■	■	43		■		■	■		■					■					
RAK-ST.1310P-M				■	90...110	700	■		■	■	■	■	■	■	43	100			■	■		■					■					
RAK-ST.1300P-M				■	120...130	700	■		■	■	■	■	■	■	43	100			■	■		■					■					
RAK-ST.1385M				■	40...70	700		■		■	■	■	■	■	65				■	■		■					■					
RAK-ST.1600MP				■	95...130	700		■		■	■	■	■	■	65	100			■	■		■					■					
RAK-TB.1400S-M			■		45...60	700	■		■	■	■			■	43		■		■	■		■					■					■
RAK-TB.1410B-M			■		50...70	700	■		■	■	■			■	43	100			■	■		■					■					
RAK-TB.1420S-M			■		65...80	700	■		■	■	■			■	43				■	■		■					■					
RAK-TR.1000B-H	■				15...95	700	■		■	■	■	■		■	43	100	■		■	■		■				■		■		■	■	■
RAK-TR.1000S-H	■				15...95	700	■		■	■	■	■		■	43		■		■	■		■				■		■		■	■	■
RAK-TR.1210B-H	■				15...82	700	■		■	■	■	■	■	■	43	100	■		■	■		■				■		■		■	■	■
RAK-TW.1000S-H		■			15...95	700	■		■	■	■	■		■	43		■		■	■		■				■		■		■	■	■
RAK-TW.1200B-H		■			40...120	700	■		■	■	■	■		■	43	100			■	■		■				■		■		■	■	■
RAK-TW.1200S-H		■			40...120	700	■		■	■	■	■		■	43		■		■	■		■				■		■		■	■	■
RAK-TW.5000S-H ³⁾		■			65...5	1600	■		■	■	■	nr	nr	■	43		■		■	■		■				■		■		■	■	■
RAK-TW.5010S-H ³⁾		■			50...-10	1600	■		■	■	■	nr	nr	■	43		■		■	■		■				■		■		■	■	■
RAK-TW.5000HS ³⁾		■			65...5	1600		■		■	■	nr	nr		65		■		■	■		■				■		■		■	■	■
RAK-TW.1200HP		■			40...120	700		■		■	■	■			65	100	■		■	■		■				■		■		■	■	■
RAK-TW.1000HB		■			15...95	700		■		■	■	■			65	100	■		■	■		■				■		■		■	■	■
RAZ-ST.011FP-J	■			■	TR: 15...95 STB: 100	700	■		■	■	■	■	■	■	40	100			■			■				■		■				
RAZ-ST.030FP-J	■				TR: 15...95 STB: 90...110	700		■		■				■	40			■		■						■		■		■	■	
RAM-TR.2000M		■			20...90			■		■	■	■	■	■	20			■		■						■		■		■	■	
RAM-TW.2000M	■			■	20...90		■			■	■	■	■	■	20	100			■			■				■		■		■	■	
RAZ-ST.1510P-J	■			■	TR: 15...95 STB: 90...110	700	■		■	■	■	■	■	■	40	100			■			■				■		■		■	■	
RAZ-ST.1500P-J	■			■	TR: 15...95 STB: 110...130	700	■		■	■	■	■	■	■	40	100			■			■				■		■		■	■	
RAZ-TW.1000P-J	■	■			TR: 15...95 TW: 15...95	700	■		■	■	■	■	■	■	40	100						■				■		■		■	■	
RAZ-TW.1200P-J	■	■			TR: 40...120 TW: 40...120	700	■		■	■	■	■	■	■	40	100			■			■				■		■		■	■	
TKM2		■			20...110	-		10 (2) A	■						54	200			■							■						
QAF63.2-J ¹⁾		Sensor			0...15	2000		see Data sheet	■	nr	nr	nr	nr	nr	42						■					■						
QAF63.6-J ¹⁾		Sensor			0...15	6000		see Data sheet	■	nr	nr	nr	nr	nr	42						■					■						
QAF64.2-J ¹⁾			■	■	0...15	2000		see Data sheet	■	nr	nr	nr	nr	nr	42									■	■	■	■	■				
QAF64.6-J ¹⁾			■	■	0...15	6000		see Data sheet	■	nr	nr	nr	nr	nr	42									■	■	■	■	■				
QAF81.3			■		-5...15	3000		10 (2) A	■	nr	nr	nr	nr	nr	54						■				■	■	■	■				
QAF81.6			■		-5...15	6000		10 (2) A	■	nr	nr	nr	nr	nr	54						■				■	■	■	■				
QAF81.6M				■	-5...15	6000		10 (2) A	■	nr	nr	nr	nr	nr	54						■				■	■	■	■				
TRG2 ²⁾		■			-5...50	-		10 (2) A	■						54										■	■			■			
TRG22		■			-5...50	-		10 (2) A	■						54										■	■			■			

¹⁾ Electronic frost protection unit with 0...10 V (0...15 °C) output signal / manual or automatic reset function

²⁾ With variable switching differential TRG2: 0,7...6 K

³⁾ An ALT-AB200 protection pocket is generally used for ductwork

⁴⁾ This field should not be considered complete or all encompassing. Various other applications are possible.

nr) not required

Thermostats

Smart thermostats

Conventional and heat pump

RDS120



Smart Room Thermostat

Room thermostat for the control of Conventional & Heat Pumps HVAC systems in apartments, single family homes, dormitories and other residential-type as well as light commercial spaces. With remote access via tablet & smartphone using the Siemens Comfort Cloud service.

Room thermostat features

- (1) Controls conventional HVAC systems up to 3H/2C and heat pumps up to 4H/2C,
- (2) Easy to read, backlit, auto-dimming 3.5" color LCD touch,
- (3) One-touch green leaf button to maximize energy efficiency,
- (4) Built-in Volatile Organic Compounds (VOC) sensor enables ventilation strategies for optimum indoor air quality,
- (5) Built-in humidity sensor,
- (6) Built-in occupancy sensor and window / door contact enables smart occupancy control

Remote operation and monitoring

- (1) Mobile App for smartphones and tablets based on iOS and Android,
- (2) Individual time program for each day of the week,
- (3) Manual switchover between "Home", "Away" and "OFF" operating modes on mobile app,
- (4) User account management

Data sheet	A6V10807603
Operating voltage	AC 24 V
Power consumption	9 VA
Color	Black
Dimensions (W x H x D)	91 x 91 x 26 mm

Stock no.	Product no.	Price (€)
S55772-T101	RDS120	374.66

Smart Room Thermostat

RDS110



Room thermostat for the control of heating applications in apartments, single family homes, dormitories and other residential-type as well as light commercial spaces. With remote access via computer, tablet, or smartphone using the Siemens Comfort Cloud service.

Room thermostat features

- Backlit, auto-dimming 90 mm color LCD touch screen for intuitive local operation
- Mobile app for smartphones
- Air quality indication via built-in sensor
- Operate automatically following a scheduler
- Direct temperature and operating mode selection
- RoomOptiControl function with Green leaf button for energy-optimized operation
- Temperature setting limitation for use in public spaces
- Screen lock protection against unauthorized access
- Manual switchover between "Home", "Away" and "OFF" on touch screen
- Room temperature control using the built-in temperature sensor or an optional remote sensor
- Optional temperature averaging using an additional remote temperature sensor
- Patented self-learning algorithm with PID response (patent pending) guaranteeing optimum temperature control performance in all room types
- Optimum start control function that advances the switch-on time to ensure the selected setpoint is reached as required
- Floor temperature limitation using a remote sensor in electric floor-heating applications
- Humidity control using the built-in humidity sensor or an optional remote sensor
- Presence detection using a built-in PIR sensor or approach sensor
- Two multifunctional inputs, optional and configurable for operating mode switchover contact (e.g. window contact), remote room temperature sensor, floor temperature sensor, outside air temperature sensor, remote humidity sensor
- Two relay outputs for heating equipment, extra output for domestic hot water (DHW) boiler, humidifier or dehumidifier
- Periodic pump/valve operation to protect against seizing
- Navigation wizard for guided, fast commissioning
- Remote firmware upgrade capability

Remote operation and monitoring

- Mobile App for smartphones and tablets based on iOS and Android
- Individual time program for each day of the week
- Energy consumption indication
- Manual switchover between "Home", "Away" and "OFF" operating modes on mobile app
- Individual scheduler for domestic hot water boiler
- User account management

Data sheet	A6V10807602
Operating voltage	AC/DC 230 V
Power consumption	Max. 9 VA
Setpoint setting range	5...40 °C
Switching differential	0.5...6 K
Communication	Connectable with a WLAN (802.11b/g/n) compatible router
Analog inputs, number	2
Relay outputs	Potential-free
Relay outputs, number	2
Relay output, switching voltage	AC 24...230 V
Relay output, switching current	5 (2) A
Type of fixing	Wall mounting with screws
Degree of protection	IP30
Dimensions (W x H x D)	91 x 91 x 26 mm

	Stock no.	Product no.	Price (€)
	S55772-T100	RDS110	353.70

Thermostats

Smart thermostats

Heating

RDS110.R



Smart Thermostat Wireless

Wireless room thermostat for the control of heating applications in apartments, single family homes, dormitories and other residential-type as well as light commercial spaces. With remote access via computer, tablet, or smartphone using the Siemens Comfort Cloud service.

Room thermostat features

- Backlit, auto-dimming 90 mm color LCD touch screen for intuitive local operation
- Air quality indication via built-in sensor
- Presence detection via geo-fencing
- Direct temperature and operating mode selection
- Temperature setting limitation for use in public spaces
- Screen lock protection against unauthorized access
- Room temperature control using the built-in temperature sensor or an optional remote sensor
- Optional temperature averaging using an additional remote temperature sensor
- Patented self-learning algorithm with PID response (patent pending) guaranteeing optimum temperature control performance in all room types
- Optimum start control function that advances the switch-on time to ensure the selected setpoint is reached as required
- Viewing temperature, humidity and heat demand trends
- Floor temperature limitation using a remote sensor in electric floor-heating applications
- Humidity control using the built-in humidity sensor or an optional remote sensor
- Multifunctional inputs for remote sensors
- Navigation wizard for guided, fast commissioning
- Remote firmware upgrade capability

Remote operation and monitoring

- Mobile App for smartphones and tablets based on iOS and Android
- Individual time program for each day of the week
- Energy consumption indication
- Manual switchover between "Home", "Away" and "OFF" operating modes on mobile app
- Wireless communication with receiver and radiator valve
- Support Dark and Light background colors on mobile app

Data sheet	A6V11562461
Operating voltage	AC 230 V
Power consumption	Max. 9 VA
Setpoint setting range	0...50 °C
Switching differential	0.5...6 K
Communication	Connectable with a WLAN (802.11b/g/n) compatible router
Analog inputs, number	2
Relay outputs	Potential-free
Relay outputs, number	2
Relay output, switching voltage	AC 24...230 V
Relay output, switching current	5 (2) A
Type of fixing	Wall mounting with screws
Degree of protection	IP30
Dimensions (W x H x D)	91 x 91 x 26 mm

Stock no.	Product no.	Price (€)
S55772-T103	RDS110.R	353.70

Thermostats

Standalone room thermostats

Heating and/or cooling

Electronic room thermostat with time switch, LCD and selection slider

REV..

Mains-independent, battery-operated room temperature controllers featuring user-friendly operation, easy-to-read display and large numbers

- Self-learning two-position controller with PID response (REV.., REV13.., REV24..)
- 3-position controller with PI response (for REV34..)
- Remote operation (REV.., REV13.., REV24, REV24DC, REV34..)
- Override button
- Sensor calibration and reset function
- Frost protection function and minimum limitation of setpoint
- Color of housing front: signal white RAL9003 (NCS S 0502-G)
- Color of baseplate: grey RAL7038



Operating mode selection:

- Automatic modes with time switch program
- Automatic mode with one or two heating phases (REV13..)
- Automatic mode with up to three comfort phases (REV.., REV24.., REV34..)
- Exception day mode with up to three comfort phases (REV.., REV24.., REV34..)
- Continuous comfort mode
- Continuous energy saving mode
- Frost protection

Operating voltage	DC 3 V
Battery life	2 years
Setpoint setting range	3...35 °C
Relay output, switching voltage	AC 24...250 V
Relay output, switching current	0.1...6 (2.5) A
	For RF versions: 0.2...16 (2) A
Degree of protection	IP20

Range overview REV..

Product Title	Dimensions (WxHxD) [mm]	Data sheet	Stock no.	Product no.	Price (€)
Room thermostat with 2-point control and 24-hour time switch, batteries, only heating	130 x 94 x 30	N2201	BPZ:REV13	REV13	137.55
Room thermostat with 3-position control and 7-day time switch, batteries, heating and cooling	134.5 x 94 x 30	N2208	BPZ:REV34-XA	REV34-XA	298.68
Room thermostat with 2-point control and 7-day time switch, batteries, heating and cooling	134.5 x 94 x 30	N2205	BPZ:REV24	REV24	161.13
Room thermostat with 2-point control and 7-day time switch, receiver with relay outputs (RF set), batteries, heating or cooling	134.5 x 94 x 30	N2206	BPZ:REV24RF/SET	REV24RF/SET	348.46

Thermostats

Standalone room thermostats

Fan coils

RAB..1..

Electromechanical room thermostats for fan coils

Electromechanical room temperature controllers for fan coil for heating and/or cooling applications. Manual three-speed fan control. The required room temperature is adjusted with the setpoint knob on the front of the unit.

- Gas-filled diaphragm
- 2-position control
- Color of housing front and baseplate: signal white RAL9003 (NCS S 0502-G)

Setpoint setting range	8...30 °C
Switching differential	≤1 K
Switching voltage	AC 24...250 V
Switching current	0.2...6 (2) A
Degree of protection	IP30

RAB11



Electromechanical room thermostat for 2-pipe fan coils, selector heating/cooling

- Heating or cooling applications
- Selector for heating or cooling mode
- Selector for manual 3-speed fan operation
- Manual fan operation or automatic fan operation parallel with the valve can be configured inside the unit

Data sheet	N3015
Operating voltage	AC 230 V
Dimensions (W x H x D)	99 x 110 x 35.3 mm

Stock no.	Product no.	Price (€)
S55770-T225	RAB11	37.99

RAB11.1



Electromechanical room thermostat for 2-pipe fan coils, selector heating/cooling/fan only

Same functionality and technical data as RAB11. Additional selector position for ventilation (heating and cooling inactive).

Data sheet	N3015
Operating voltage	AC 230 V
Dimensions (W x H x D)	99 x 110 x 35.3 mm

Stock no.	Product no.	Price (€)
S55770-T226	RAB11.1	46.11

RAB91



Fan speed switch, 3-stage

Selector for 3-speed fan operation

Data sheet	N3018
Operating voltage	AC 230 V
Dimensions (W x H x D)	96 x 97 x 36 mm

Stock no.	Product no.	Price (€)
S55770-T231	RAB91	19.52

Electromechanical room thermostat for 2-pipe fan coils, basic model

RAB21

- Heating or cooling applications
- Selector for manual 3-speed fan operation
- Changeover function, heating or cooling (with external automatic aquastat)
- Manual fan operation or automatic fan operation parallel with cooling / heating mode can be configured inside the unit

Data sheet N3016
Operating voltage AC 230 V
Dimensions (W x H x D) 99 x 110 x 35.3 mm



Stock no.	Product no.	Price (€)
S55770-T227	RAB21	40.87

Electromechanical room thermostat for 4-pipe fan coils, selector heating/cooling

RAB31

- Heating or cooling applications
- Selector for heating or cooling mode
- Selector for 3-speed fan operation
- Manual fan operation or automatic fan operation parallel with heating / cooling mode (depending on the selector's position) can be configured inside the unit

Data sheet N3017
Operating voltage AC 230 V
Dimensions (W x H x D) 99 x 110 x 35.3 mm



Stock no.	Product no.	Price (€)
S55770-T229	RAB31	44.28

Electromechanical room thermostat for 4-pipe fan coils, selector heating/cooling/fan only

RAB31.1

Same functionality and technical data as RAB31. Additional selector position for ventilation (heating and cooling inactive).

Data sheet N3017
Operating voltage AC 230 V
Dimensions (W x H x D) 99 x 110 x 35.3 mm



Stock no.	Product no.	Price (€)
S55770-T230	RAB31.1	48.60

Thermostats

Standalone room thermostats

Fan coils

RCC..

Electronic room thermostats for fan coils

- For heating and cooling applications
- Operating mode selector
- LEDs for indicating the operating state
- Setting knob for room temperature adjustment
- External operating mode changeover contact
- Various operating modes (normal and energy saving mode, etc.)

Setpoint setting range	8...30 °C
Degree of protection	IP30

RCC10



Room thermostat for 2-pipe fan coils, AC 230 V, positioning signal 2 pt, return air sensor

- Heating or cooling sequence
- Automatic heating/cooling changeover (with sensor QAH11.1)
- Operating mode changeover input for remote control
- Outputs for 3-speed fan (0 / I / II / III)
- 2-position control
- Selectable switching differential (1 K heating, 0.5 K cooling, or 4 K heating, 2 K cooling)
- Input for return temperature sensor (QAH11.1)
- Frost protection mode

Data sheet	N3021
Operating voltage	AC 230 V
Relay output, switching voltage	230 V
Relay output, switching current	Fan: 0.1...2.6 A Valve: 0.1...1.3 A
Relay outputs	Fan: 3-position switch with normally open contacts Valve: Change-over contact
Dimensions (W x H x D)	Non floating 97 x 114 x 43 mm

Stock no.	Product no.	Price (€)
BPZ:RCC10	RCC10	101.39

Room thermostat for 2-pipe fan coils, AC 230 V, positioning signal 2 pt, return air sensor, el. heater

RCC20



- Heating or cooling sequence
- Automatic heating/cooling changeover (with sensor QAH11.1)
- Operating mode changeover input for remote control
- Output for electrical heater
- 2-position control
- Selectable switching differential (1 K heating, 0.5 K cooling, or 4 K heating, 2 K cooling)
- Selectable dead zone (2 K or 5 K)
- Input for return air temperature sensor (QAH11.1)
- Frost protection mode
- Outputs for 3-speed fan (0 / I / II / III)

Data sheet	N3022
Operating voltage	AC 230 V
Relay output, switching voltage	230 V
Relay output, switching current	Fan: 0.1...2.6 A Valve: 0.1...1.3 A Electric heater: 0.1...5.4 A
Relay outputs	Fan: 3-position switch with normally open contacts Valve: Normally open contact Electric heater: Normally open contact Non floating
Dimensions (W x H x D)	97 x 114 x 43 mm

	Stock no.	Product no.	Price (€)
	BPZ:RCC20	RCC20	109.39

Room thermostat for 4-pipe fan coils, AC 230 V, positioning signal 2pt, return air sensor

RCC30



- Heating and cooling sequence
- Operating mode changeover input for remote control
- 2-position control
- Selectable switching differential (1 K heating, 0.5 K cooling, or 4 K heating, 2 K cooling)
- Input for return air temperature sensor (QAH11.1)
- Frost protection mode
- Selectable dead zone (2 K or 5 K)
- Outputs for 3-speed fan (0 / I / II / III)

Data sheet	N3023
Operating voltage	AC 230 V
Relay output, switching voltage	230 V
Relay output, switching current	Fan: 0.1...2.6 A Valve: 0.1...1.3 A
Relay outputs	Fan: 3-position switch with normally open contacts Valve: Normally open contact Non floating
Dimensions (W x H x D)	96.6 x 114.15 x 42.8 mm

	Stock no.	Product no.	Price (€)
	BPZ:RCC30	RCC30	109.39

Accessories for RAB.. / RCC..

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Mounting plate 120 x 120 mm for 4 x 4" housing	N3009	BPZ:ARG70	ARG70	6.04
Mounting plate 112 x 130 mm for surface wiring	N3009	BPZ:ARG70.2	ARG70.2	19.65
Changeover cable holder for QAH11..	N3009	BPZ:ARG86.3	ARG86.3	1.62
Cable temperature sensor PVC 2.5 m, NTC 3 kOhm, without connectors	N1840	BPZ:QAH11.1	QAH11.1	23.58

Thermostats

Standalone room thermostats

Fan coils

RDG1.. Room thermostats for fan coil units, universal applications and heat pump applications

Data sheet	N3181
Setpoint setting range	5...40 °C
Type of fixing	Wall mounting with screws
Degree of protection	IP30

RDG100**Room thermostat, AC 230 V, for fan coil units and universal applications**

- Operating modes: Comfort, Energy Saving and Protection
- 2-position, 3-position or PWM control outputs
- Automatic or manual fan speed
- 3 multifunctional inputs for keycard contact, external room / return air temperature (QAH11.1, QAA32), heat / cool changeover, operation mode changeover, window contact on/off, dewpoint monitor, electrical heater enabled, fault contact
- Automatic or manual heating / cooling changeover
- Adjustable commissioning and control parameters
- Minimum and maximum setpoint limitation
- Backlit display

Application selectable:

- 2-pipe system
- 2-pipe system with electrical heater
- 2-pipe system and radiator / floor heating
- 4-pipe system
- 4-pipe system with electrical heater
- 2-stage heating or cooling system

Data sheet	N3181
Operating voltage	AC 230 V
Switching differential	Heating: 0.5... 6 K; Cooling: 0.5... 6 K
Analog inputs, number	2
Digital inputs, number	1
Relay outputs	Fan: 1- or 3-speed
Relay outputs, number	3
Relay output, switching voltage	230 V
Relay output, switching current	5 (4) A
Triac outputs	Valve, el. heater
	2-position, PWM, 3-position
Triac outputs, number	3
Triac output, switching voltage	230 V
Triac output, switching current	1 A
Dimensions (W x H x D)	93 x 128 x 30.8 mm

Stock no.	Product no.	Price (€)
S55770-T158	RDG100	163.75

Room thermostat, AC 230 V, for fan coil units and heat pump applications

RDG110

- Operating modes: Comfort, Energy Saving and Protection
- 2-position control outputs
- Automatic or manual fan speed
- 3 multifunctional inputs for keycard contact, external room / return air temperature (QAH11.1, QAA32), heat / cool changeover, operation mode changeover, window contact on/off, dewpoint monitor, electrical heater enabled, fault contact
- Automatic or manual heating / cooling changeover
- Adjustable commissioning and control parameters
- Minimum and maximum setpoint limitation
- Backlit display



Application selectable:

- 2-pipe system
- 2-pipe system with electrical heater
- 2-pipe system and radiator / floor heating
- 4-pipe system
- 2-stage heating or cooling system

Data sheet	N3181
Operating voltage	AC 230 V
Switching differential	Heating: 0.5...6 K; Cooling: 0.5...6 K
Analog inputs, number	2
Digital inputs, number	1
Relay outputs	Valve, compressor or el. heater: 2 outputs (SPDT), 2-position Fan: 1- or 3-speed
Relay outputs, number	5
Relay output, switching voltage	230 V
Relay output, switching current	Valve, compressor or el. heater: 5 (3) A Fan: 5 (4) A
Dimensions (W x H x D)	93 x 128 x 30.8 mm

	Stock no.	Product no.	Price (€)
	S55770-T160	RDG110	145.41

Thermostats

Standalone room thermostats

Fan coils

RDG1..0T..

Room thermostat for fan coil units and universal applications, 7-day time switch

Data sheet	N3181
Setpoint setting range	5...40 °C
Type of fixing	Wall mounting with screws
Degree of protection	IP30

RDG160T

**Room thermostat, AC 24 V, for fan coil units (3-speed or ECM fan), universal applications and heat pump applications. 7-day time switch. Outputs DC 0..10V or ON/OFF**

- Operating modes: Auto timer, Comfort, Energy Saving and Protection
- Auto Timer mode with 8 programmable timers
- 2-position or DC 0...10V control outputs
- ECM fan or 3-speed fan outputs
- Automatic or manual fan speed
- 3 multifunctional inputs for keycard contact, external room / return air temperature (QAH11.1, QAA32), heat / cool changeover, operation mode changeover, window contact on/off, dewpoint monitor, electrical heater enabled, fault contact, supply air temperature sensor
- Automatic or manual heating / cooling changeover
- Adjustable commissioning and control parameters
- Minimum and maximum setpoint limitation
- Infrared remote control receiver
- Backlit display
- Auto timer can be disabled

Application selectable:

- 2-pipe system
- 2-pipe system with electrical heater
- 2-pipe system and radiator / floor heating
- 4-pipe system
- 2-stage heating or cooling system

Data sheet	N3181
Operating voltage	AC/DC 24 V
	DC 24 V
Switching differential	Heating: 0.5...6 K; Cooling: 0.5...6 K
Analog inputs, number	2
Relay outputs, number	3
Relay outputs	Fan: 1- or 3-speed
	Valve: Normally open contact
	Electric heater: Normally open contact
Relay output, switching voltage	AC 24...230 V
Relay output, switching current	5 (4) A
Analog outputs	Valve, el. heater: 2
	Fan: 1 (ECM)
Analog output, signal	DC 0...10 V
Analog output, current	Valve, el. heater: Max. ±1 mA
	Fan: Max. ±5 mA
Dimensions (W x H x D)	93 x 128 x 30.8 mm

Stock no.	Product no.	Price (€)
S55770-T343	RDG160T	200.43

Room thermostat, AC 230 V, for fan coil units and universal applications, 7-day time switch, vertical

RDG100T



- Operating modes: Auto timer, Comfort, Energy Saving and Protection
- Auto Timer mode with 8 programmable timers
- 2-position, 3-position or PWM control outputs
- Automatic or manual fan speed for 1-speed or 3-speed fan
- 3 multifunctional inputs for keycard contact, external room / return air temperature (QAH11.1, QAA32), heat / cool changeover, operation mode changeover, window contact on/off, dewpoint monitor, electrical heater enabled, fault contact
- Automatic or manual heating / cooling changeover
- Adjustable commissioning and control parameters
- Minimum and maximum setpoint limitation
- Infrared remote control receiver
- Backlit display
- Auto timer can be disabled

Application selectable:

- 2-pipe system
- 2-pipe system with electrical heater
- 2-pipe system and radiator / floor heating
- 4-pipe system
- 4-pipe system with electrical heater
- 2-stage heating or cooling system

Data sheet	N3181
Operating voltage	AC 230 V
Switching differential	Heating: 0.5...6 K; Cooling: 0.5...6 K
Analog inputs, number	2
Relay outputs, number	3
Relay outputs	Fan: 1- or 3-speed
Relay output, switching voltage	230 V
Relay output, switching current	5 (4) A
Triac outputs, number	3
Triac output, switching current	1 A
Triac outputs	Valve, el. heater
	2-position, PWM, 3-position
Triac output, switching voltage	230 V
Dimensions (W x H x D)	93 x 128 x 30.8 mm

	Stock no.	Product no.	Price (€)
	S55770-T159	RDG100T	188.64

Accessories for RDG.. / RDF..

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Mounting plate 112 x 130 mm for surface wiring	N3009	BPZ:ARG70.2	ARG70.2	19.65
Infrared Remote Control for room thermostats	N3060	S55770-T166	IRA211	40.87
Cable temperature sensor PVC 2.5 m, NTC 3 kOhm, without connectors	N1840	BPZ:QAH11.1	QAH11.1	23.58

Thermostats

Standalone room thermostats

Fan coils

RDF..

Room thermostat

- Electronic room temperature controller with LCD for fan coil units for compressors in DX -type equipment
- For heating and/or cooling applications
- ON/OFF
- Operating mode changeover input for remote control
- Various operating modes (normal, energy saving and stand-by)
- Outputs for 3-speed fan
- Selectable installation and control parameters
- Color of housing front: signal white RAL9003 (NCS S 0502-G)
- Color of baseplate: light grey RAL7035 (NCS 2801-Y43R)

Operating voltage	AC 230 V
Setpoint setting range	5...40 °C
Relay outputs	Fan: N.O. contacts, non-floating Valve: change-over contact, non-floating
Relay output, switching voltage	AC 230 V
Relay output, switching current	4 (2) A
Degree of protection	IP30
Dimensions (W x H x D)	86 x 86 x 39 mm

RDF110



Room thermostat for 2-pipe fan coils or DX-type equipment, return air temperature sensor

- Output for an on / off valve actuator or compressor
- Outputs for a 3-speed fan
- Control depending on the room or return air temperature (with sensor QAH11.1)
- 2-position control
- Sensor input either for automatic heating / cooling changeover or return air temperature (with sensor QAH11.1)
- Automatic or manual three-speed fan control
- Operating modes: normal, energy-saving and standby
- Operating mode changeover input for remote control

Data sheet	N3057
Degree of protection	IP30
Dimensions (W x H x D)	102 x 128 x 30 mm

Stock no.	Product no.	Price (€)
BPZ:RDF110	RDF110	115.41

RDF110.2



Room thermostat for 2-pipe fan coils or DX-type equipment

- Output for an on / off valve actuator or compressor
- Outputs for a 3-speed fan
- Control depending on the room or return air temperature (with sensor QAH11.1)
- 2-position control
- Manual heating/Cooling change-over
- Automatic or manual three-speed fan control
- Operating modes: normal, energy-saving and standby

Data sheet	N3057
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Stock no.	Product no.	Price (€)
BPZ:RDF110.2	RDF110.2	100.22

Thermostats

Standalone room thermostats

Fan coils

Accessories for RDF..

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Mounting bracket 10 mm thick	N3009	BPZ:ARG70.3	ARG70.3	4.90
Infrared Remote Control for room thermostats	N3060	S55770-T166	IRA211	40.87
Room temperature sensor NTC 3 kOhm	N1747	BPZ:QAA32	QAA32	23.58
Cable temperature sensor PVC 2.5 m, NTC 3 kOhm, without connectors	N1840	BPZ:QAH11.1	QAH11.1	23.58

Flush-mount room thermostats for both round and square conduit boxes, with backlit LCD

RDF6..Flush Mount

Flush-mount room thermostat for round conduit box with LCD

- Output for 1-speed or 3-speed fan
- 2 or 3-position control outputs
- Two multifunctional inputs for keycard contact, external room / return air temperature (QAH11.1, QAA32), heat / cool changeover, operation mode changeover, window contact on/off, dewpoint monitor, electrical heater enabled, fault contact
- Operating modes: Comfort, Energy Saving and Protection
- Automatic or manual heating/cooling changeover
- Adjustable commissioning and control parameters
- Minimum and maximum setpoint limitation
- Color of housing: signal white (RAL 9003)
- Backlit display



Application selectable:

- 2-pipe system
- 2-pipe system with electrical heater
- 4-pipe system

Switching differential	0.5...6 K
Analog inputs, number	2
Relay outputs, number	5
Type of fixing	Recessed round conduit box diameter min. 60 mm
Dimensions (W x H x D)	86 x 86 x 46 mm

Range overview RDF6..Flush Mount

Product Title	Stock no.	Product no.	Price (€)
Flush-mount room thermostat for round conduit box for 2-/4-pipe fan coils or DX type equipment, backlit LCD	S55770-T291	RDF600	142.79
Flush-mount room thermostat for round conduit box, for 2-/4-pipe fan coils or DX type equipment, infrared remote control, 7-day time switch, backlit LCD	S55770-T292	RDF600T	159.82

Thermostats

Standalone room thermostats

Fan coils

RDF8..Flush Mount



Touch screen room thermostat for 2-/4- pipe fan coil, universal applications or compressors in DX-type equipment

- Operating modes: Comfort, Economy and Protection
- For heating and/or cooling applications
- 2 or 3-position control outputs
- Output for 1-speed or 3-speed fan
- 2 multifunctional inputs for keycard contact, external room / return air temperature (QAH11.1, QAA32), heat / cool changeover, window contact on/off, dewpoint monitor, electrical heater enable d, fault contact, presence detector
- Automatic or manual heating/cooling changeover
- Adjustable commissioning and control parameters
- Minimum and maximum setpoint limitation
- Color of housing: Ivory white
- Backlit display

Application selectable:

- 2-pipe system
- 2-pipe system with electrical heater
- 4-pipe system

Data sheet	N3174
Power consumption	6 VA
Setpoint setting range	5...40 °C
Switching differential	0.5...6 K
Analog inputs, number	2
Relay outputs	Fan: N.O. contacts, non-floating Valve: N.O. contacts, non-floating
Relay outputs, number	5
Relay output, switching voltage	AC 230 V
Relay output, switching current	5 (2) A
Degree of protection	IP30
Dimensions (W x H x D)	86 x 86 x 47 mm

Range overview RDF8..Flush Mount

Product Title	Operating voltage [V]	Stock no.	Product no.	Price (€)
Touch screen room thermostat for 2-/4- pipe fan coil, universal applications or compressors in DX-type equipment	AC/DC 230	S55770-T396	RDF800	171.61

Room thermostat, AC 24 V, VAV heating and cooling systems

RDG400



- Output DC 0...10 V for VAV actuator and auxiliary output ON/OFF, PWM or 3-position or 3-position for VAV actuator and auxiliary output DC 0...10 V
- 3 multifunctional inputs for keycard contact, external room / return air temperature (1x, QAH11.1, QAA32), heat / cool changeover, operation mode changeover, window contact on/off, dewpoint monitor, electrical heater enabled, fault contact
- Operating modes: Comfort, Energy Saving and Protection
- Modulating PI control
- Control depending on the room or the return air temperature
- Automatic or manual heating / cooling changeover
- Adjustable commissioning and control parameters
- Minimum and maximum setpoint limitation
- Minimum and maximum limitation of air flow signal
- Output signal inversion (DC 0...10 V) as an option
- Backlit display

Application selectable:

- Single-duct system
- Single-duct system with electrical heater
- Single-duct system and radiator / floor heating
- Single-duct system with heating / cooling coil

Data sheet	N3182
Operating voltage	AC 24 V
Power consumption	2 VA
Setpoint setting range	5...40 °C
Switching differential	Heating: 0.5...6 K; Cooling: 0.5...6 K
Analog inputs, number	2
Analog outputs	VAV actuator, electric heater, valve
Analog outputs, number	1
Analog output, signal	DC 0...10 V
Analog output, current	1 mA
Digital inputs, number	1
Triac outputs	VAV actuator, valve, el. heater
Triac outputs, number	2-position, PWM, 3-position
Triac output, switching voltage	24 V
Triac output, switching current	1 A
Type of fixing	Wall mounting with screws
Degree of protection	IP30
Dimensions (W x H x D)	93 x 128 x 30.8 mm

Stock no.	Product no.	Price (€)
S55770-T164	RDG400	179.47

Electronic room thermostat for VAV and CAV systems

RCU.. VAV

- Electronic room thermostat for heating and cooling operation
- P control
- Setpoint shifting
- Color of housing front: signal white RAL9003 (NCS S 0502-G)
- Color of baseplate: light grey RAL7035 (NCS 2801-Y43R)

Power consumption	6 VA
Setpoint setting range	8...30 °C
Analog output, signal	DC 0...10 V
Analog output, current	Max. ±1 mA
Type of fixing	Wall mounting with screw
Degree of protection	IP30
Dimensions (W x H x D)	97 x 114 x 43 mm

Thermostats

Standalone room thermostats

Variable air volumes (VAV)

RCU50.2



Room thermostat for VAV and CAV systems, AC 24 V, positioning signal DC 0...10 V, manual changeover heating/cooling/off

Same functionality and technical data as RCU50

- Manual heating / cooling changeover and OFF position
- Signal inversion of output signal
- No setpoint shift
- No operating mode changeover input for remote control
- No adjustable minimum limitation for cooling output
- No frost protection

Data sheet

N3045

Operating voltage

AC 24 V

	Stock no.	Product no.	Price (€)
	BPZ:RCU50.2	RCU50.2	128.51

Room thermostat with KNX communications, for fan coil units and universal applications

RDG1..KN

- Operating modes: Comfort, Economy and Protection
- 2-position, 3-position, PWM or DC control outputs
- Automatic or manual fan speed for 1-speed, 3-speed or EC fan
- 3 multifunctional inputs for keycard contact, external room / return air temperature, heat / cool changeover, operation mode changeover, window contact on/off, dewpoint monitor, electrical heater enabled, fault contact
- Automatic or manual heating / cooling changeover
- Adjustable commissioning and control parameters
- Minimum and maximum setpoint limitation
- Backlit display

Application selectable:

- 2-pipe system
- 2-pipe system with electrical heater
- 2-pipe system and radiator / floor heating
- 4-pipe system
- 4-pipe system with electrical heater (only RDG100KN)
- 2-stage heating or cooling system

Data sheet

N3191

Thermostats

Communicating room thermostats

Fan coils – KNX

RDG160KN


Room thermostat with KNX communications, AC 24 V, for fan coil units and universal applications, heat pump, fan (1-/ 3-speed, DC), valves (2-point, DC)

- KNX communications
- For applications with DC control outputs and DC or 3-speed fan output
- For applications with 2-position control output with DC fan output
- 3 multifunctional inputs for keycard contact, external room / return air temperature (QAH11.1, QAA32), heat / cool changeover, operation mode changeover, window contact on/off, dewpoint monitor, electrical heater enabled, fault contact, presence detector
- Operating modes: Comfort, Economy and Protection
- Automatic or manual EC fan or 1-/3-speed
- Automatic or manual heating / cooling changeover
- Adjustable commissioning and control parameters
- Minimum and maximum setpoint limitation
- Backlit display
- Master / Slave function in KNX S-mode

Application selectable:

- 2-pipe system
- 2-pipe system with electrical heater
- 2-pipe system and radiator / floor heating
- 4-pipe system
- 2-stage heating or cooling system
- Heating / cooling with 6-port ball valves

Data sheet	N3191
Operating voltage	AC 24 V
Setpoint setting range	5...40 °C
Switching differential	Heating: 0.5...6 K; Cooling: 0.5...6 K
Communication	Bus: KNX (S-Mode und LTE-Mode mit Synco 700)
Analog inputs, number	2
Analog outputs	Valve, el. heater: 2
	Fan: 1 (ECM)
Analog outputs, number	3
Analog output, signal	DC 0...10 V
Digital inputs, number	1
Relay outputs	Valve, compressor or el. heater: 2 outputs, 2-position
	Fan: 1- or 3-speed
Relay outputs, number	3
Relay output, switching voltage	AC 24...230 V
Relay output, switching current	5 (4) A
Type of fixing	Wall mounting with screws
Degree of protection	IP30
Dimensions (W x H x D)	93 x 128 x 30.8 mm

Stock no.	Product no.	Price (€)
S55770-T297	RDG160KN	273.79

Room thermostat with KNX communications, AC 230 V, for fan coil units and universal applications

RDG100KN



- KNX communications
- 3 multifunctional inputs for keycard contact, external room / return air temperature (QAH11.1, QAA32), heat / cool changeover, operation mode changeover, window contact on/off, dewpoint monitor, electrical heater enabled, fault contact
- Operating modes: Comfort, Economy and Protection
- 2-position, 3-position or PWM control outputs
- Automatic or manual fan speed for 1-speed, 3-speed fan
- Automatic or manual heating / cooling changeover
- Adjustable commissioning and control parameters
- Minimum and maximum setpoint limitation
- Backlit display

Application selectable:

- 2-pipe system
- 2-pipe system with electrical heater
- 2-pipe system and radiator / floor heating
- 4-pipe system
- 4-pipe system with electrical heater
- 2-stage heating or cooling system

Data sheet	N3191
Operating voltage	AC 230 V
Setpoint setting range	5...40 °C
Switching differential	Heating: 0.5...6 K; Cooling: 0.5...6 K
Communication	Bus: KNX (S-Mode und LTE-Mode mit Synco 700)
Analog inputs, number	2
Digital inputs, number	1
Relay outputs	Fan: 1- or 3-speed
Relay outputs, number	3
Relay output, switching voltage	230 V
Relay output, switching current	5 (4) A
Triac outputs	Valve, el. heater
	2-position, PWM, 3-position
Triac outputs, number	3
Triac output, switching voltage	230 V
Triac output, switching current	1 A
Type of fixing	Wall mounting with screws
Degree of protection	IP30
Dimensions (W x H x D)	93 x 128 x 30.8 mm

	Stock no.	Product no.	Price (€)
	S55770-T163	RDG100KN	256.76

Thermostats

Communicating room thermostats

Fan coils – KNX

RDG165KN



Room thermostat with KNX communications and built-in humidity sensor and humidity control, AC 24 V, for fan coil units and universal applications, heat pump, fan (1-/ 3-speed, DC), valves (2-point, DC)

- KNX communications
- For applications with DC control outputs and DC or 3-speed fan output
- For applications with 2-position control output with DC fan output
- 3 multifunctional inputs for keycard contact, external room / return air temperature (QAH11.1, QAA32), heat / cool changeover, Presence detector, window contact on/off, dewpoint monitor, electrical heater enabled, fault contact
- Operating modes: Comfort, Economy and Protection
- Automatic or manual EC fan or 1-/3-speed
- Automatic or manual heating / cooling changeover
- Adjustable commissioning and control parameters
- Minimum and maximum setpoint limitation
- Backlit display
- Built-in humidity sensor and humidity control

Application selectable:

- 2-pipe system
- 2-pipe system with electrical heater
- 2-pipe system and radiator / floor heating
- 4-pipe system
- 2-stage heating or cooling system

Data sheet	N3191
Operating voltage	AC 24 V
Setpoint setting range	5...40 °C
Switching differential	Heating: 0.5...6 K; Cooling: 0.5...6 K
Communication	Bus: KNX (S-Mode und LTE-Mode mit Synco 700)
Analog inputs, number	2
Analog outputs	Valve, el. heater: 2
Analog outputs, number	Fan: 1 (ECM)
Analog output, signal	3
Digital inputs, number	DC 0...10 V
Relay outputs	1
Relay outputs, number	Valve, compressor or el. heater: 2 outputs, 2-position
Relay output, switching voltage	Fan: 1- or 3-speed
Relay output, switching current	3
Type of fixing	AC 24...230 V
Degree of protection	5 (4) A
Dimensions (W x H x D)	Wall mounting with screws
	IP30
	93 x 128 x 30.8 mm

	Stock no.	Product no.	Price (€)
	S55770-T347	RDG165KN	327.50

Flush-mount room thermostat with KNX communications, 2-/4-pipe fan coils or DX type equipment for both round and square conduit boxes RDF6..KNX Flush Mount

Flush-mount room thermostat with LCD for fan coil units and compressors in DX-type equipment

- KNX communications
- For heating and/or cooling applications
- 2 or 3-position control outputs
- Output for 1-speed or 3-speed fan
- 2 multifunctional inputs for keycard contact, external room / return air temperature (QAH11.1, QAA32), heat / cool changeover, operation mode changeover, window contact on/off, dewpoint monitor, electrical heater enabled, fault contact, presence detector
- Operating modes: Comfort, Economy and Protection
- Automatic or manual heating/cooling changeover
- Adjustable commissioning and control parameters
- Minimum and maximum setpoint limitation
- Backlit display
- Color of housing: signal white (RAL 9003)
- Independent function for window contact, presence detector (standard presence and hotel presence)



Application selectable:

- 2-pipe system
- 2-pipe system with electrical heater
- 4-pipe system

Data sheet	N3076
Power consumption	2 VA
Switching differential	0.5...6 K
Communication	KNX
Analog inputs, number	2
Relay outputs	Fan: N.O. contacts, non-floating Valve: N.O. contacts, non-floating
Relay outputs, number	5
Relay output, switching voltage	AC 230 V
Relay output, switching current	5 (2) A
Type of fixing	With screws on recessed round conduit box diameter min. 60 mm
Dimensions (W x H x D)	86 x 86 x 46 mm

Range overview RDF6..KNX Flush Mount

Product Title	Operating voltage [V]	Stock no.	Product no.	Price (€)
Flush-mount room thermostat with KNX communications, 2-/4-pipe fan coils or DX type equipment for both round and square conduit boxes, black	AC 230	S55770-T430	RDF600KN/VB	231.87
Flush-mount room thermostat with KNX communications, 2-/4-pipe fan coils or DX type equipment	AC 230	S55770-T293	RDF600KN	231.87
Flush-mount room thermostat with KNX communications, 2-/4-pipe fan coils or DX type equipment, with KNX switching group, four buttons for switching lights and blinds	AC 230	S55770-T400	RDF600KN/S	233.18

Thermostats

Communicating room thermostats

Fan coils – KNX

RDF8..KNX Flush Mount

Touch screen room thermostat for 2-/4- pipe fan coil, universal applications or compressors in DX-type equipment



- Operating modes: Comfort, Economy and Protection
- For heating and/or cooling applications
- 2 or 3-position control outputs
- Output for 1-speed or 3-speed fan
- 2 multifunctional inputs for keycard contact, external room / return air temperature (QAH11.1, QAA32), heat / cool changeover, window contact on/off, dewpoint monitor, electrical heater enabled, fault contact, presence detector
- Automatic or manual heating/cooling changeover
- Adjustable commissioning and control parameters
- Minimum and maximum setpoint limitation
- Color of housing: Ivory white
- Backlit display

Application selectable:

- 2-pipe system
- 2-pipe system with electrical heater
- 4-pipe system

Data sheet	N3174
Power consumption	6 VA
Setpoint setting range	5...40 °C
Switching differential	0.5...6 K
Communication	Bus: KNX (S-mode and LTE mode with Synco 700)
Analog inputs, number	2
Relay outputs	Fan: N.O. contacts, non-floating Valve: N.O. contacts, non-floating
Relay outputs, number	5
Relay output, switching voltage	AC 230 V
Relay output, switching current	5 (2) A
Degree of protection	IP30
Dimensions (W x H x D)	86 x 86 x 47 mm

Range overview RDF8..KNX Flush Mount

Product Title	Operating voltage [V]	Stock no.	Product no.	Price (€)
Touch screen room thermostat with KNX communications, for 2-/4- pipe fan coil, universal applications or compressors in DX-type equipment (for China frames)	AC 230	S55770-T335	RDF800KN/NF	251.00
Touch screen room thermostat for 2-/4- pipe fan coil, universal applications or compressors in DX-type equipment, black	AC 230	S55770-T429	RDF800KN/VB	275.10
Touch screen room thermostat with KNX communications, for 2-/4- pipe fan coil, universal applications or compressors in DX-type equipment	AC 230	S55770-T350	RDF800KN	275.10

Room thermostats with KNX communications

RDG2..KN

- KNX communications
- Built-in temperature and humidity sensors
- 3 multifunctional inputs for keycard contact, external room / return air temperature (NTC3K; QAH11.1, QAA32 or LG-Ni1000 sensors), heat / cool changeover, operation mode changeover, window contact on/off, dewpoint monitor, electrical heater enabled, fault contact, presence detector
- Operating modes: Comfort, Economy and Protection
- Automatic or manual DC fan or 1-/3-speed
- Automatic or manual heating / cooling changeover
- Adjustable commissioning and control parameters
- Minimum and maximum setpoint limitation
- Backlit display
- Green leaf function

Application selectable:

- 2-pipe system
- 2-pipe system with electrical heater
- 2-pipe system and radiator / floor heating
- 4-pipe system
- 4-pipe system with electrical heater

Data sheet

A6V11545853

Thermostats

Communicating room thermostats

Fan coils – KNX

RDG200KN

**KNX communicating room thermostat. Outputs modulating (PWM / 3-pos.) or on/off. Fan coil (3-speed / DC fan), universal applications**

- KNX communications
- Built-in temperature and humidity sensors and control
- For applications with 2-position (on/off or PWM) or 3-position control outputs
- For applications with 3-speed or DC 0...10 V fan
- AC 230V or AC 24V power supply.
- 3 multifunctional inputs for keycard contact, external room / return air temperature (NTC3K; QAH11.1, QAA32 or LG-Ni1000 sensors), heat / cool changeover, operation mode changeover, window contact on/off, dewpoint monitor, electrical heater enabled, fault contact, presence detector
- Operating modes: Comfort, Economy and Protection
- Automatic or manual DC fan or 1-/3-speed
- Automatic or manual heating / cooling changeover
- Adjustable commissioning and control parameters
- Minimum and maximum setpoint limitation
- Backlit display
- Green leaf function
- Commissioning via Smartphone APP "PCT Go", local HMI or KNX tools.

Application selectable:

- 2-pipe system
- 2-pipe system with electrical heater
- 2-pipe system and radiator / floor heating
- 4-pipe system
- 4-pipe system with electrical heater
- 2-stage heating or cooling system

Data sheet	A6V11545853
Operating voltage	AC 24 V AC 230 V
Setpoint setting range	5...40 °C
Switching differential	Heating: 0,5... 6 K Cooling: 0,5... 6 K
Communication	Bus: KNX (S-mode and LTE with Synco)
Analog inputs, number	3
Analog outputs	Fan. 1 (DC 0...10 V)
Analog outputs, number	1
Analog output, signal	DC 0...10 V
Digital inputs, number	3
Relay outputs	Fan: 1- or 3-speed
Relay outputs, number	3
Relay output, switching voltage	AC 24 V or 230 V
Relay output, switching current	5 (4) A
Triac outputs	Valve, el. heater 2-position, PWM, 3-position
Triac outputs, number	3
Triac output, switching voltage	AC 24 V or 230 V
Triac output, switching current	Max. 1 A
Type of fixing	Wall mounting with screws
Degree of protection	IP30
Dimensions (W x H x D)	92 x 134 x 25 mm

Stock no.	Product no.	Price (€)
S55770-T409	RDG200KN	288.20

KNX communicating room thermostat. Outputs modulating (DC) or on/off. Fan coil (3-speed / DC fan) or universal applications

RDG260KN



- KNX communications
- Built-in temperature and humidity sensors and control
- For applications with DC control outputs and DC or 3-speed fan output
- For applications with 2-position control output with DC fan output
- AC or DC 24V power supply
- 3 multifunctional inputs for keycard contact, external room / return air temperature (NTC3K; QAH11.1, QAA32 or LG-Ni1000 sensors), heat / cool changeover, operation mode changeover, window contact on/off, dewpoint monitor, electrical heater enabled, fault contact, presence detector
- Operating modes: Comfort, Economy and Protection
- Automatic or manual DC fan or 1-/3-speed
- Automatic or manual heating / cooling changeover
- Minimum and maximum setpoint limitation
- Backlit display
- Green leaf function
- Adjustable commissioning and control parameters
- Commissioning via Smartphone APP "PCT Go", local HMI or KNX tools

Application selectable:

- 2-pipe system
- 2-pipe system with electrical heater
- 2-pipe system and radiator / floor heating
- 4-pipe system
- 4-pipe system with electrical heater
- 2-stage heating or cooling system
- Heating / cooling with 6-port ball valves

Data sheet	A6V11545853
Operating voltage	AC 24 V
Setpoint setting range	5...40 °C
Switching differential	Heating: 0,5...6 K Cooling: 0,5...6 K
Communication	Bus: KNX (S-mode and LTE with Synco)
Analog inputs, number	3
Analog outputs	Valve, el. heater: 3 Fan: 1 (DC 0...10 V)
Analog outputs, number	4
Analog output, signal	DC 0...10 V
Digital inputs, number	3
Relay outputs	Valve, compressor or el. heater: 2 outputs, 2-position Fan: 1- or 3-speed
Relay outputs, number	3
Relay output, switching voltage	AC 24 V to 230 V
Relay output, switching current	5 (4) A
Type of fixing	Wall mounting with screws
Degree of protection	IP30
Dimensions (W x H x D)	92 x 134 x 25 mm

	Stock no.	Product no.	Price (€)
	S55770-T412	RDG260KN	288.20

Thermostats

Communicating room thermostats

Variable air volumes (VAV) – KNX

RDG405KN


Room thermostat for temperature and air quality control with KNX communications, AC 24 V, VAV heating and cooling systems

- KNX communications
- Output DC 0...10 V for VAV actuator and auxiliary output ON/OFF, PWM or 3-position or 3-position for VAV actuator and auxiliary output DC 0...10 V
- 2 multifunctional inputs for keycard contact, external room / return air temperature (1x, QAH11.1, QAA32), heat / cool changeover, operation mode changeover, window contact on/off, dewpoint monitor, electrical heater enabled, fault contact, presence detector
- 1 input DC 0...10 V for damper position feedback, for CO2 sensor
- Operating modes: Comfort, Economy and Protection
- Modulating PI control
- Control depending on the room or the return air temperature and air quality
- Automatic or manual heating / cooling changeover
- Adjustable commissioning and control parameters
- Minimum and maximum setpoint limitation
- Minimum and maximum limitation of air flow signal
- Output signal inversion (DC 0...10 V) as an option
- Backlit display

Application selectable:

- Single-duct system
- Single-duct system with electrical heater
- Single-duct system and radiator / floor heating
- Single-duct system with heating / cooling coil

Data sheet	N3192
Operating voltage	AC 24 V
Power consumption	2 VA
Setpoint setting range	5...40 °C
Switching differential	Heating: 0.5...6 K; Cooling: 0.5...6 K
Communication	Bus: KNX (S-mode and LTE mode with Synco 700)
Analog inputs, number	2
Analog outputs	VAV actuator, electric heater, valve
Analog outputs, number	1
Analog output, signal	DC 0...10 V
Analog output, current	1 mA
Digital inputs, number	1
Triac outputs	VAV actuator, valve, el. heater
Triac outputs, number	2-position, PWM, 3-position
Triac output, switching voltage	1
Triac output, switching current	24 V
Type of fixing	1 A
Degree of protection	Wall mounting with screws
Dimensions (W x H x D)	IP30
	93 x 128 x 30.8 mm

Stock no.	Product no.	Price (€)
S55770-T348	RDG405KN	276.41

Flush-mount room thermostat with Modbus communications

RDF3.. Modbus Flush Mount

Range overview RDF3.. Modbus Flush Mount

Operating voltage [V]	Color	Stock no.	Product no.	Price (€)
AC 230	Black	S55770-T428	RDF302/VB	172.92
AC 230		S55770-T238	RDF302	172.92
AC 230 230		S55770-T416	RDF302.B	119.08

Thermostats

Capillary and clamp-on thermostats

Temperature

RAK-TW.1..H..



Thermal reset limit thermostat

Immersion, strap-on and remote thermostat in one

Data sheet	N1202
Switching differential	6 K
Digital output, switching voltage	AC 24...250 V
Digital output, switching current	Contact connection 1-2: 0.1...16 (2.5) A Contact connection 1-3: 0.1...6(2.5) A
Digital outputs	1-pole Potential-free Changeover contact
Degree of protection	IP65
Dimensions (W x H x D)	55 x 156 x 64 mm

Range overview RAK-TW.1..H..

Setpoint setting range [°C]	Protection pocket [LW7]	Capillary length [mm]	Stock no.	Product no.	Price (€)
40...120	PN 10, 100 mm, G 1/2"	700	S55700-P118	RAK-TW.1200HP	133.62
15...95	PN 10, 100 mm, G 1/2"	700	S55700-P115	RAK-TW.1000HB	87.77

Note to protection pocket: Brass, nickel-plated.

RAK-ST..M



Safety limit thermostat

Internal scale, 1 changeover contact, failsafe capillary, immersion and strap-on thermostat in one, with ambient temperature compensation.

Data sheet	N1204
Reset temperature	Min. 15 K under the switch-off point
Digital output, switching voltage	AC 24...250 V
Digital output, switching current	Contact 11-12: 0.1...16 (2.5) A Contact 11-13: 2 (0.4) A
Digital outputs	1-pin Potential-free Switchover contact
Degree of protection	IP43
Dimensions (W x H x D)	55 x 156 x 67 mm

Range overview RAK-ST..M

Switch-off point [°C]	Protection pocket [LW7]	Capillary length [mm]	Stock no.	Product no.	Price (€)
95	PN 10, 100 mm, G 1/2"	700	S55700-P100	RAK-ST.010FP-M	87.77
100	PN 10, 100 mm, G 1/2"	700	S55700-P101	RAK-ST.020FP-M	114.89
110	PN 10, 100 mm, G 1/2"	700	S55700-P102	RAK-ST.030FP-M	92.88
110...130	PN 10, 100 mm, G 1/2"	700	S55700-P103	RAK-ST.1300P-M	100.74
90...110	PN 10, 100 mm, G 1/2"	700	S55700-P104	RAK-ST.1310P-M	97.73
80...100		1600	S55700-P106	RAK-ST.1430S-M	87.90

Note to protection pocket: Brass, nickel-plated.

Thermostats

Capillary and clamp-on thermostats

Temperature

Temperature controller/ safety limit thermostat

RAZ-ST..J



Combination of control thermostat (TR) and safety limit thermostat (STB). Internal scale (TR), internal scale (STB), 2 changeover contacts, failsafe capillary, STB with ambient temperature compensation. Immersion thermostat and wall mounting.

Data sheet	N1214
Immersion length	100 mm
Capillary length	700 mm
Reset temperature	Min. 20 Kelvin under the switch-off point
Switching differential	TR: 6 K STB: ± 5 K
Digital output, switching voltage	AC 24...250 V
Digital output, switching current	TR: 0.1...16 (4) A STB: Contact 1-2 0.1...16 (1) A Contact 1-4 max. 0.5 A (alarm contact)
Digital outputs	1-pin Potential-free Changeover contact
Degree of protection	IP40
Dimensions (W x H x D)	120 x 106 x 70 mm

Range overview RAZ-ST..J

Setpoint setting range [°C]	Switch-off point [°C]	Protection pocket [LW7]	Stock no.	Product no.	Price (€)
15...95 110	110	PN 10, 100 mm, G ½"	S55700-P137	RAZ-ST.030FP-J	187.33
15...95 90...110	90...110	PN 10, 100 mm, G ½"	S55700-P139	RAZ-ST.1510P-J	172.92

Double protection pocket 2x inner dia.7mm, brass nickel plated.

Thermostats

Capillary and clamp-on thermostats

Temperature

RAZ-TW.1..J



Temperature controller/ thermal reset limit thermostat

Combination of control thermostat (TR) and thermal reset limit thermostat (TW). Internal scale (TR), internal scale (TW), 2 changeover contacts. Immersion thermostat and wall mounting.

Data sheet	N1212
Immersion length	100 mm
Reset temperature	Min. 15 Kelvin under the switch-off point
Switching differential	6 K
Digital output, switching voltage	AC 24...250 V
Digital output, switching current	0.1...16 (4) A
Digital outputs	1-pin
	Potential-free
	Changeover contact
Degree of protection	IP40
Dimensions (W x H x D)	120 x 106 x 70 mm

Range overview RAZ-TW.1..J

Setpoint setting range [°C]	Protection pocket [LW7]	Capillary length [mm]	Stock no.	Product no.	Price (€)
TR: 15...95 TW: 15...95	PN 10, 100 mm, G ½" 2x	700	S55700-P140	RAZ-TW.1000P-J	172.92
TR: 40...120 TW: 40...120	PN 10, 100 mm, G ½" 2x	700	S55700-P141	RAZ-TW.1200P-J	189.95

Double protection pocket 2x inner dia.7mm, brass nickel plated.

TKM2



Thermal reset limit thermostat for air ducts, 20...110 °C; perforated protection pocket 200mm

Data sheet	N1291
Setpoint setting range	20...110 °C
Switching differential	2 K
Digital output, switching voltage	AC 250 V
Digital output, switching current	0.2...10 (2) A
Ambient temperature head	Max. 100 °C
Digital outputs	1-pin
	Potential-free
	Changeover contact
Degree of protection	IP54
Dimensions (W x H x D)	60 x 120 x 55 mm

Stock no.	Product no.	Price (€)
BPZ:TKM2	TKM2	328.81

Thermostats

Capillary and clamp-on thermostats

Temperature

Thermal reset limit thermostat

RAK-TW.1..H

Internal scale, 1 changeover contact, immersion and strap-on thermostat in one.

Data sheet	N1202
Switching differential	6 K
Digital output, switching voltage	AC 24...250 V
Digital output, switching current	Contact 1-2: 0.1...16 (2.5) A Contact 1-3: 0.1...6 (2.5) A
Digital outputs	1-pin Potential-free Changeover contact
Degree of protection	IP43
Dimensions (W x H x D)	55 x 156 x 64 mm



Range overview RAK-TW.1..H

Setpoint setting range [°C]	Protection pocket [LW7]	Capillary length [mm]	Stock no.	Product no.	Price (€)
40...120		700	S55700-P119	RAK-TW.1200S-H	84.50
15...95		700	S55700-P116	RAK-TW.1000S-H	84.50
40...120	PN 10, 100 mm, G ½"	700	S55700-P117	RAK-TW.1200B-H	87.77

Note to protection pocket: Brass, nickel-plated.

Strap-on temperature controller, 20...90 °C, fixing spring, setpoint adjuster externally

RAM-TR.2000M

Electromechanical temperature control (TR) with single-pole changeover microswitch:

- Set point externally adjustable
- Controlled medium: water, oil

Data sheet	N1198
Setpoint setting range	20...90 °C
Sensing element	Bimetall
Digital output, switching voltage	AC 24...250 V
Digital output, switching current	0.2...16 A
Digital outputs	1-pin Potential-free Changeover contact
Degree of protection	IP20
Dimensions (W x H x D)	38 x 105 x 42 mm



Stock no.	Product no.	Price (€)
BPZ:RAM-TR.2000M	RAM-TR.2000M	33.41

Thermostats

Capillary and clamp-on thermostats

Temperature

RAM-TW.2000M



Strap-on temperature limitation, 20...90 °C, fixing spring, setpoint adjuster internally

Electromechanical temperature limitation (TW) with single-pole changeover microswitch:

- Set point internally adjustable
- Controlled medium: water, oil

Data sheet	N1198
Setpoint setting range	20...90 °C
Sensing element	Bimetall
Digital output, switching voltage	AC 24...250 V
Digital output, switching current	0.2...16 A
Digital outputs	1-pin
	Potential-free
	Changeover contact
Degree of protection	IP20
Dimensions (W x H x D)	38 x 105 x 42 mm

	Stock no.	Product no.	Price (€)
	BPZ:RAM-TW.2000M	RAM-TW.2000M	34.45

RAK-TR.1..H



Temperature controller

External scale, 1 changeover contact, immersion and strap-on thermostat in one.

Data sheet	N1205
Switching differential	6 K
Digital output, switching voltage	AC 24...250 V
Digital output, switching current	0.1...16 (2.5) A
Digital outputs	1-pin
	Potential-free
	Changeover contact
Degree of protection	IP43
Dimensions (W x H x D)	55 x 156 x 72 mm

Range overview RAK-TR.1..H

Setpoint setting range [°C]	Protection pocket [LW7]	Capillary length [mm]	Stock no.	Product no.	Price (€)
15...95	PN 10, 100 mm, G ½"	700	S55700-P111	RAK-TR.1000B-H	88.29
15...95		700	S55700-P112	RAK-TR.1000S-H	85.15
15...82	PN 10, 100 mm, G ½"	700	S55700-P113	RAK-TR.1210B-H	84.50

Note to protection pocket: Brass, nickel-plated.

Thermostats

Capillary and clamp-on thermostats

Temperature

Temperature limiter

RAK-TB.1..M

Internal scale, 1 changeover contact, immersion and strap-on thermostat in one.

Data sheet	N1206
Reset temperature	Min. 15 K under the switch-off point
Digital output, switching voltage	AC 24...250 V
Digital output, switching current	Contact 11-12: 0.1...16 (2.5) A
	Contact 11-13: 2 (0.4) A
Digital outputs	1-pin
	Potential-free
	Switchover contact
Degree of protection	IP43
Dimensions (W x H x D)	55 x 156 x 67 mm



Range overview RAK-TB.1..M

Switch-off point [°C]	Protection pocket [LW7]	Capillary length [mm]	Stock no.	Product no.	Price (€)
45...60		700	S55700-P108	RAK-TB.1400S-M	80.96
65...80		700	S55700-P110	RAK-TB.1420S-M	92.88
50...70	PN 10, 100 mm, G½"	700	S55700-P109	RAK-TB.1410B-M	87.77

Note to protection pocket: Brass, nickel-plated.

Protection pockets for RAK-T and RAK-S

Packaging unit	Protection pocket	Material	PN class	Data sheet	Stock no.	Product no.	Price (€)
1 pc	450 mm, G½" LW7	Stainless steel V4A	PN 16	N1194	BPZ:ALT-SS450	ALT-SS450	38.51
1 pc	100 mm, G½" LW7	Brass, nickel-plated	PN 10	N1194	BPZ:ALT-SB100	ALT-SB100	17.16
1 pc	150 mm, G½" LW7	Brass, nickel-plated	PN 10	N1194	BPZ:ALT-SB150	ALT-SB150	18.60
1 pc	100 mm; G ½"; 7 mm	Stainless steel V4A	PN 16	N1194	BPZ:ALT-SS100	ALT-SS100	27.12
1 pc	150 mm, G½" LW7	Stainless steel V4A	PN 16	N1194	BPZ:ALT-SS150	ALT-SS150	28.56
1 pc	280 mm, G½" LW7	Stainless steel V4A	PN 16	N1194	BPZ:ALT-SS280	ALT-SS280	32.49
1 pc	100 mm, G½" (with flange) LW7	Stainless steel V4A	PN 40	N1194	BPZ:ALT-SSF100	ALT-SSF100	54.76
1 pc	150 mm, G½" (with flange) LW7	Stainless steel V4A	PN 40	N1194	BPZ:ALT-SSF150	ALT-SSF150	61.70

Accessories for RAK-T and RAK-S

Product Title	Packaging unit	Material	Data sheet	Stock no.	Product no.	Price (€)
Protection pocket, perforated, 200 mm	1 pc	Steel, galvanized	N1193	BPZ:ALT-AB200	ALT-AB200	14.02
Mounting flange, adjustable depth	1 pcs.	PA66GF35	N1193	BPZ:AQM63.0	AQM63.0	8.52
3 capillary supports and 3 spacers for QAF.. Mounting			N1821	BPZ:AQM63.2	AQM63.2	45.98

Thermostats

Capillary and clamp-on thermostats

Temperature

Accessories for RAZ-T.., RAZ-S.. and RAK..

Product Title	Material	PN class	Data sheet	Stock no.	Product no.	Price (€)
Protection pocket, 100 mm, MS63 nickel-plated, G½", PN10, 2xLW7	Brass, nickel-plated	PN 10	N1194	S55700-P142	ALT-DB100J	23.06
Protection pocket, 100 mm, stainless steel V4A, G½" LW15	Stainless steel V4A	PN 16	N1194	S55700-P146	ALT-DS100J	51.48

Accessory for TKM2

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Protection pocket, perforated, 200 mm	N1193	BPZ:ALT-AB200	ALT-AB200	14.02

RAK-ST.1..M..



Safety limit thermostat

Immersion, strap-on and remote thermostat in one

Data sheet	N1204
Reset temperature	~7 K under the switch-off point
Digital output, switching voltage	AC 24...250 V
Digital output, switching current	Contact 11-12: 16 (2,5) A Contact 11-13: 2 (0,4) A
Digital outputs	1-pole Potential-free Changeover contact
Degree of protection	IP65
Dimensions (W x H x D)	55 x 156 x 67 mm

Range overview RAK-ST.1..M..

Switch-off point [°C]	Protection pocket	Capillary length [mm]	Stock no.	Product no.	Price (€)
40...70		700	S55700-P105	RAK-ST.1385M	119.47
95...130	100 mm; G ½"; 7 mm; PN10	700	S55700-P107	RAK-ST.1600MP	131.00

Note to protection pocket: Brass, nickel-plated.

Thermostats

Capillary and clamp-on thermostats

Frost protection units

Frost monitor, 2-point, capillary tube 6000 mm, -10...+15 °C

QAF65.6M-J

Internal scale, 1 changeover contact, capillary tube for fitting on air heating coils

Factory setup 5 °C

Data sheet	A6V11965899
Operating voltage	AC 250 V
Setpoint setting range	-10... 15 °C
Sensing element, temperature	Liquid expansion sensor
Capillary length	6000 mm
Switching differential	2 K
Digital output, switching voltage	AC 24...250 V
Digital output, switching current	Contact 1-2: 0.1... 16 (4)A; Contact 1-4 (STB, Alarm contact): 0.1... 16 (4) A
Digital outputs	Switchover contact
Degree of protection	IP65
Dimensions (W x H x D)	53 x 150 x 64 mm
Color	Gray



	Stock no.	Product no.	Price (€)
	S55700-P162	QAF65.6M-J	183.40

Frost monitor, 2-point

QAF81..

For temperature supervision on the air side of air heating coils in ventilation and air conditioning plants to provide protection against frost.

Data sheet	N1284
Setpoint setting range	-5...+15 °C
Min. active length	300 mm
Switching differential	2 K
Digital output, switching voltage	AC 250 V
Digital output, switching current	10 (2) A
Mounting position	Any
Digital outputs	1-pin
	Potential-free
	Switchover contact
Degree of protection	IP54
Dimensions (W x H x D)	106 x 113 x 37 mm



Range overview QAF81.

Capillary length [mm]	Stock no.	Product no.	Price (€)
3000	BPZ:QAF81.3	QAF81.3	226.63
6000	BPZ:QAF81.6	QAF81.6	230.56
6000	BPZ:QAF81.6M	QAF81.6M	248.90

Thermostats

Capillary and clamp-on thermostats

Frost protection units

RAK-TW.5..H



Frost protection monitor

Internal scale, 1 changeover contact, immersion and strap-on thermostat in one.

Perforated protection pocket must be ordered as a separate item: ALT-AB200

Data sheet	N1203
Switching differential	5 K
Digital output, switching voltage	AC 24...250 V
Digital output, switching current	Contact 1-2: 0.1...16 (2.5) A
	Contact 1-3: 0.1...6 (2.5) A
Digital outputs	1-pin
	Potential-free
	Switching contact
Degree of protection	IP43
Dimensions (W x H x D)	55 x 156 x 64 mm

Range overview RAK-TW.5..H

Setpoint setting range [°C]	Capillary length [mm]	Stock no.	Product no.	Price (€)
5...65	1600	S55700-P121	RAK-TW.5000S-H	71.26
-10...50	1600	S55700-P122	RAK-TW.5010S-H	70.09

Accessories for QAF81..

Product Title	Data sheet	Stock no.	Product no.	Price (€)
6 Capillary tube clamps for QAF../QAM.. mounting	N1284	BPZ:AQM63.3	AQM63.3	19.39
Set of 6 capillary supports	N1284	BPZ:FK-TZ1	FK-TZ1	24.24

RAK-TW.5..H..



Frost protection monitor

Immersion, strap-on and remote thermostat in one

Perforated protection pocket must be ordered as a separate item: ALT-AB200

Data sheet	N1203
Switching differential	5 K
Digital output, switching voltage	AC 24...250 V
Digital output, switching current	Contact connection 1-2: 0.1...16 (2.5) A
	Contact connection 1-3: 0.1...6 (2.5) A
Digital outputs	1-pole
	Potential-free
	Changeover contact
Degree of protection	IP65
Dimensions (W x H x D)	55 x 156 x 64 mm

Range overview RAK-TW.5..H..

Setpoint setting range [°C]	Capillary length [mm]	Stock no.	Product no.	Price (€)
5...65	1600	S55700-P120	RAK-TW.5000HS	116.20

Accessories for RAK-TW.5.. and RAK-TW.5..H..

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Protection pocket, perforated, 200 mm	N1193	BPZ:ALT-AB200	ALT-AB200	14.02

Thermostats

Capillary and clamp-on thermostats

Frost protection units

Accessories for TKM2D

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Protection pocket, perforated, 200 mm	N1193	BPZ:ALT-AB200	ALT-AB200	14.02
6 Capillary tube clamps for QAF../QAM.. mounting	N1284	BPZ:AQM63.3	AQM63.3	19.39

Frost detector, modulating

- For fitting to the air duct
- Fully active capillary tube sensor
- With capillary tube entry

In addition to direct mounting, the frost sensor can be fitted to the air duct using the AQM63.0 snap-on mounting flange (accessory).

QAF63..J



Data sheet	A6V10432020
Operating voltage	AC 24 V
Power consumption	5 VA
Min. active length	250 mm
Measuring range, temperature	0...15 °C
Ambient temperature, operation	-15...60 °C
Connection cable	3-wire
Analog output, signal	DC 0...10 V
Degree of protection	IP42
Dimensions (W x H x D)	96 x 136 x 67 mm

Range overview QAF63..J

Capillary length [mm]	Stock no.	Product no.	Price (€)
2000	S55700-P153	QAF63.2-J	241.04
6000	S55700-P154	QAF63.6-J	296.06

Thermostats

Capillary and clamp-on thermostats

Frost protection units

QAF64..J



Frost detector, air side, 2-point

- Modulating and 2-position
- Fully active capillary type sensing element
- Indication of frost with red LED
- Test switch for simulation of frost
- Selector for automatic or manual reset function
- Modulating P-controller for startup
- Limit value contact for plant control

In addition to direct mounting, the frost monitor can be fitted to the air duct using the AQM63.0 snap-on mounting flange (accessory).

Data sheet	A6V10432022
Operating voltage	AC 24 V
Power consumption	6.6 VA
Min. active length	250 mm
Setpoint setting range	1...10 °C
Measuring range, temperature	0...15 °C
Ambient temperature, operation	-15...55 °C
Connection cable	6 (8)-wire
Digital output, switching voltage	DC 5 V / AC 5...250 V
Digital output, switching current	6 (4) A
Analog inputs	Control input
Analog output, signal	DC 0...10 V
Digital outputs	Potential-free Switchover contact
Degree of protection	IP42
Dimensions (W x H x D)	96 x 136 x 67 mm

Range overview QAF64..J

Capillary length [mm]	Stock no.	Product no.	Price (€)
2000	S55700-P155	QAF64.2-J	294.75
6000	S55700-P156	QAF64.6-J	347.15

Thermostats

Capillary and clamp-on thermostats

Coiled probe thermostats

Room thermostat with helix sensor, TR -5..50 °C

TRG2

For commercial and industrial applications.

Data sheet	N1329
Setpoint setting range	-5...50 °C
Switching differential	Adjustable: 0.7...6 K
Digital output, switching voltage	AC 250 V
Digital output, switching current	0.2...10 (2) A
Digital outputs	Changeover contact
	1-pin
	Potential-free
Mounting position	Horizontal
Degree of protection	IP54
Dimensions (W x H x D)	98 x 95 x 63 mm



	Stock no.	Product no.	Price (€)
	BPZ:TRG2	TRG2	252.83

Room thermostat with helix sensor, TR -5..50 °C, 2 switches on 2 steps 2..12 K difference

TRG22

For commercial and industrial applications.

Note on switching interval:

Adjustable temperature difference between step 1 and step 2.

Data sheet	N1329
Setpoint setting range	-5...50 °C
Switching differential	2 K
Switching interval	2...12 K
Digital outputs	CO: 2
	Potential-free
Mounting position	Horizontal
Degree of protection	IP54
Dimensions (W x H x D)	98 x 135 x 67 mm



	Stock no.	Product no.	Price (€)
	BPZ:TRG22	TRG22	475.53

Sensors

2



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Overview sensors

Temperature								
Model		Room sensors	Duct sensors	Immersion sensors	Outside sensors		Strap-on sensors	Cable sensors
Type reference		QAA	QAM	QAE	QAC	QAC	QAD	QAP
Category:	Standard	■	■	■		■	■	■
	High Quality				■			

Humidity									
Model		Room sensors				Duct sensors			Outside sensors
Type reference		QFA	QFA..D	QFA	QFA..D	QFM	QFM	QFM..D	QFA
Category	Standard	■	■			■			
	High Quality			■	■		■	■	■
	Certified			■	■		■		

Air quality						
Model	Room sensors			Air duct sensors		
Type reference	QPA1..	QPA2..	QPA..D	QPM1..	QPM2..	QPM..D
Measured value	VOC					
	CO2					
	CO2 / VOC					
	CO2 / T					
	CO2 / H / T					
Display						
Category	Basic					
	Standard					

Pressure							
Model		Differential pressure sensors				Absolute pressure sensors	
Medium		Air	Air	Liquids / gases	Liquids / gases	Liquids / gases	Refrigeration
Type reference		QBM3../4..	QBM2030	QBE63	QBE3x00-D	QBE2x03-P	QBE2x04-P
Category	Standard		■	■		■	■
	High Quality	■			■		
	Certified	■					

Flow							
Model		Flow switch			Flow sensor		Air velocity sensor
Medium		Liquids	Liquids	Liquids	Liquids	Liquids	Air
Type reference		QVE1900	QVE1901	QVE1902	QVE2x00	QVE3x00	QVM62.1
Category	Basic	■	■	■			
	Standard				■		■
	High Quality					■	

Xtra			
Model		Solar sensors	Flue gas temperature sensors
Type reference		QLS60	FGT-PT1000
Medium			Air
Measured value		Intensity of radiation	Flue gas temperature
Category	Standard	■	
	High Quality		■

Overview module combinations - room sensors for flush mounting

Active sensors			Measuring variables					Display	Selection tool controller range						
Basic module	+	Front module	CO ₂	VOC	Relative humidity	Active temp.	Passive temp.	CO ₂ -indicator	Desigo PX	RXL	RXB	RXC	RVL4, RVP3	Synco 200	Synco 700
AQR2540Nx	+	AQR2532NNW				■			■					■	■
AQR2540Nx	+	AQR2535NNW			■	■			■					■	■
AQR2546Nx	+	AQR2530NNW	■						■					■	■
AQR2546Nx	+	AQR2532NNW	■			■			■					■	■
AQR2546Nx	+	AQR2535NNW	■		■	■ ²⁾			■					■	■
AQR2546Nx	+	AQR2535NNWQ	■		■	■ ²⁾		■	■					■	■
AQR2547Nx	+	AQR2530NNW		■					■					■	■
AQR2547Nx	+	AQR2532NNW		■		■			■					■	■
AQR2547Nx	+	AQR2535NNW		■	■	■ ²⁾			■					■	■
AQR2548Nx	+	AQR2530NNW	■	■ ¹⁾					■					■	■
AQR2548Nx	+	AQR2532NNW	■	■ ¹⁾²⁾		■			■					■	■
AQR2548Nx	+	AQR2535NNW	■	■ ¹⁾²⁾	■	■ ²⁾			■					■	■
AQR2548Nx	+	AQR2535NNWQ	■	■ ¹⁾²⁾	■	■ ²⁾		■	■					■	■

For passive sensors see page 6-4

¹⁾ Here, the in-door air quality is calculated from the CO₂ and VOC measuring variables. VOC is not available as direct measuring variable.

²⁾ The measuring variable is solely available as switch output.

³⁾ The Desigo PX does not accept NTC 10k signal. The Desigo TX module need to be used for the NTC 10k signal.

Passive sensors														
Mounting plate	+	Front module	CO ₂	VOC	Relative humidity	Active temp.	Passive temp.	Desigo PX	RXL	RXB	RXC	RVL4, RVP3	Synco 200	Synco 700
AQR2500Nx	+	AQR2531ANW					LG-Ni1000	■	■	■	■	■	■	■

Replace x with:

- F for VDE/CEE (70x70 mm)
- H for British Standard (83x83 mm)
- G for Italian Standard 3 modular (110x64 mm)
- J for UL Standard 2" x 4" (64x110 mm)

Power supply: AC 24 V, DC 15...36 V

Signal range active sensor: DC 0...5 V, DC 2...10 V, DC 0...10 V, DC 0...20 mA, DC 4...20 mA, and DC 0...10 mA

A freely selectable switching contact is available for every measuring variable.

Communicating sensors		Measuring variables				Display	Inputs	
Base modul	+	Front module	CO ₂	Relative humidity	Temperature	CO ₂ -indicator	Passive temperature NTC 10k	Two potential-free contacts
AQR2570Nx	+	AQR2532NNW			■		■	■
AQR2570Nx	+	AQR2535NNW		■	■		■	■
AQR2576Nx	+	AQR2530NNW	■				■	■
AQR2576Nx	+	AQR2532NNW	■		■		■	■
AQR2576Nx	+	AQR2535NNW	■	■	■		■	■
AQR2576Nx	+	AQR2535NNWQ	■	■	■	■	■	■

Replace x with:

- F for VDE/CEE (70x70 mm)
- H for British Standard (83x83 mm)
- G for Italian Standard 3 modular (110x64 mm)
- J for UL Standard 2" x 4" (64x110 mm)

The room sensors are KNX certified and can be used in conjunction with all devices capable of communicating over KNX.

Furthermore the sensors can be used with the following Siemens building automation systems:

- Desigo TRA (PL-Link)
- Synco 700 (KNX LTE-Mode)
- GAMMA (KNX S-Mode)

Room temperature sensor, passive

QAA2..

Measuring range, temperature	0...50 °C
Connection, electrical	Screw terminals
Degree of protection	IP30
Dimensions (W x H x D)	90 x 100 x 32 mm
Warranty	5 Years



Range overview QAA2..

Sensing element, temperature	Time constant [min]	Measurement accuracy [K]	Stock no.	Product no.	Price (€)
Pt100	7	At 0...50 °C: ±0.6	BPZ:QAA2010	QAA2010	41.53
LG-Ni1000	7	At 0...50 °C: ±0.8 °	BPZ:QAA24	QAA24	51.35
Pt1000	7	At 0...50 °C: ±0.6	BPZ:QAA2012	QAA2012	41.53
NTC 10k	7	At 0...50 °C: ±0.8	BPZ:QAA2030	QAA2030	37.34

Room temperature sensors, active

QAA20..1

Data sheet	N1749
Measurement accuracy	at AC 24 V in the range of -25 °C...+25 °C ±0.75 K -50 °C...+50 °C ±0.9 K
Connection, electrical	Screw terminals
Degree of protection	IP30
Dimensions (W x H x D)	90 x 100 x 36 mm
Warranty	5 Years



Range overview QAA20..1

	Stock no.	Product no.	Price (€)
	BPZ:QAA2061	QAA2061	140.17
	BPZ:QAA2061D	QAA2061D	235.80
	BPZ:QAA2071	QAA2071	140.17

Room temperature sensor NTC 3 kOhm

QAA32

Data sheet	N1747
Sensing element	NTC3k
Measuring range, temperature	0...40 °C
Sensing element, temperature	NTC3k
Time constant	6 min
Measurement accuracy	At 25 °C: ±0.3 K
Connection, electrical	Screw terminals
Degree of protection	IP30
Dimensions (W x H x D)	97 x 100 x 36 mm
Warranty	5 Years



	Stock no.	Product no.	Price (€)
	BPZ:QAA32	QAA32	23.58

Sensors

Temperature

Room sensors - wall mounted QAA..

2

QAA26



Room unit with room temperature sensor and setpoint adjuster 5..30 °C

For Desigo™ PX applications

Data sheet	N1721
Time constant	7 min
Sensing element	LG-Ni1000
Setpoint setting range	5...30 °C
Measuring range, temperature	0...50 °C
Sensing element, temperature	LG-Ni1000
Degree of protection	IP30
Dimensions (W x H x D)	90 x 100 x 36 mm
Warranty	5 Years

Stock no.	Product no.	Price (€)
BPZ:QAA26	QAA26	116.59

QAA25



Room unit with room temperature sensor and setpoint adjuster

For Synco™ and Desigo™ PX applications

Data sheet	N1721
Sensing element	LG-Ni1000
Setpoint setting range	5...35 °C
Measuring range, temperature	0...50 °C
Sensing element, temperature	LG-Ni1000
Time constant	7 min
Connection, electrical	Screw terminals
Degree of protection	IP30
Dimensions (W x H x D)	90 x 100 x 36 mm
Warranty	5 Years

Stock no.	Product no.	Price (€)
BPZ:QAA25	QAA25	116.59

QAA27



Room unit with room temperature sensor and setpoint readjuster -3...3 K

For Synco™ and Desigo™ PX applications

Data sheet	N1721
Sensing element	LG-Ni1000
Setpoint readjustment range	-3...3 K
Measuring range, temperature	0...50 °C
Sensing element, temperature	LG-Ni1000
Time constant	7 min
Connection, electrical	Screw terminals
Degree of protection	IP30
Dimensions (W x H x D)	90 x 100 x 36 mm
Warranty	5 Years

Stock no.	Product no.	Price (€)
BPZ:QAA27	QAA27	116.59

AQR253..

2



Front modules for base module

- Front module with sensors

Data sheet	N1411
Color	Titanium white
Degree of protection	IP30
Warranty	5 Years

Range overview AQR253..

Measuring range, temperature [°C]	Signal output temperature	Measurement range humidity [% r.h.]	Display	Dimensions (WxHxD) [mm]	Stock no.	Product no.	Price (€)
0...50	Active			55 x 55 x 12	S55720-S137	AQR2530NNW	26.72
0...50	Active	0...100		55 x 55 x 12	S55720-S136	AQR2532NNW	46.77
0...50	Active LG-Ni1000	0...100		55 x 55 x 12	S55720-S138	AQR2534ANW	176.85
0...50	Active	0...100		55 x 55 x 12	S55720-S141	AQR2535NNW	184.71
0...50	Active	0...100	CO ₂ indicator by LED	55 x 55 x 38	S55720-S219	AQR2535NNWQ	184.71

The matching design frame must be ordered separately.

Front modules with passiv temperature measurement

AQR2531..

Front module with passiv sensor.

Data sheet	N1408
Measuring range, temperature	0...50°C
Connection, electrical	Screw terminals
Color	Titanium white
Degree of protection	IP30
Warranty	5 Years

Range overview AQR2531..

Sensing element, temperature	Dimensions (WxHxD) [mm]	Stock no.	Product no.	Price (€)
LG-Ni1000	55 x 55 x 38.5	S55720-S133	AQR2531ANW	53.45

AQR2540..**Base modules for temperature and humidity measurement**

- Base module without sensor for plugging onto a front module

Data sheet	N1410
Operating voltage	AC 24 V DC 15...36 V
Connection, electrical	Screw terminals
Analog output, signal	DC 0...10 V DC 2...10 V DC 0...5 V DC 0...20 mA DC 4...20 mA DC 0...10 mA CO: 1 Potential-free
Digital outputs	
Warranty	5 Years

Range overview AQR2540..

Mechanical design	Dimensions (WxHxD) [mm]	Stock no.	Product no.	Price (€)
EU (CEE/VDE)	71 x 71 x 45	S55720-S142	AQR2540NF	108.86
IT (3 modular)	71 x 71 x 45	S55720-S144	AQR2540NG	108.86
UK (British Standard)	71 x 71 x 45	S55720-S143	AQR2540NH	108.86

AQR2570..**Base module with KNX for temperature and humidity measurement**

- Base module without sensor for plugging onto a front module
- 1 analog input to connect temperature sensors with NTC 10k sensing element to measure room, floor, or ceiling temperature
- 2 multifunctional binary inputs to connect window contacts or buttons
- Power supply via KNX bus, bus load < 5 mA
- Communication: KNX S-Mode, KNX LTE-Mode (Synco)



Data sheet	N1411
Voltage supply	KNX bus
Analog inputs, number	1
Analog inputs	Passive temperature sensor NTC 10k
Digital inputs, number	2
Digital inputs	Potential-free contacts
Warranty	5 Years

Range overview AQR2570..

Mechanical design	Dimensions (WxHxD) [mm]	Stock no.	Product no.	Price (€)
EU (CEE/VDE)	71 x 71 x 45	S55720-S203	AQR2570NF	167.68
IT (3 Modular)	71 x 71 x 45	S55720-S205	AQR2570NG	167.68
UK (British Standard)	71 x 71 x 45	S55720-S204	AQR2570NH	167.68
US (UL)	64 x 110 x 45	S55720-S206	AQR2570NJ	167.68

Mounting plates for front modules AQR2531..

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Mounting plate EU (CEE/VDE)	N1408	S55720-S161	AQR2500NF	3.88
Mounting plate IT (3 modular)	N1408	S55720-S163	AQR2500NG	6.68

Room sensors - flush mounted AQR25..

Frames for front modules AQR253..

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Frame DELTA line for front module	N1410	S55720-S158	AQR2510NFW	4.81
Frame DELTA miro for front module	N1410	S55720-S159	AQR2510NHW	8.02

FK-TP/200



Duct temperature sensor Pt100, for high temperature

With connecting head to DIN.
No protection pocket required.

Supplied complete with mounting flange.

Data sheet	N1778
Sensing element, temperature	Pt100
Sensing element	Pt100
Measuring range, temperature	-70...+260 °C
Signal output temperature	Pt100
Measurement accuracy	-70...+260 °C: ±1.8 K
Time constant	<100 s at v = 1 m/s
Immersion length	200 mm
Material, immersion pocket	Stainless steel
Connection, mechanical	Flange
Connection, electrical	Screw terminals
Type of fixing	Flange
Degree of protection	IP65
Dimensions (W x H x D)	60 x 80 x 83 mm
Warranty	5 Years

Stock no.	Product no.	Price (€)
BPZ:FK-TP/200	FK-TP/200	451.95

QAM9020.200

Cable length	2 m
Warranty	5 Years

Stock no.	Product no.	Price (€)
BPZ:QAM9020.200	QAM9020.200	44.02

QAM9020.400

Cable length	4 m
Warranty	5 Years

Stock no.	Product no.	Price (€)
BPZ:QAM9020.400	QAM9020.400	48.08

Accessories for QAM21.. and QAM21..1

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Mounting flange, adjustable depth	N1193	BPZ:AQM63.0	AQM63.0	8.52
6 Capillary tube clamps for QAF../QAM.. mounting	N1284	BPZ:AQM63.3	AQM63.3	19.39
Accessory, sensor QAM9020, mounting flange	N1772	BPZ:AQM9020	AQM9020	16.24
3 capillary supports and 3 spacers for QAF.. Mounting	N1821	BPZ:AQM63.2	AQM63.2	45.98

Duct temperature sensor, passive

QAM21..0..

Fully active, flexible probe for averaging.

Note on fixing:

Supplied complete with mounting flange.

Data sheet

N1761

Time constant

At $v = 2$ m/s: 30 s

Warranty

5 Years



Range overview QAM21..

Probe length [mm]	Sensing element, temperature	Measuring range, temperature [°C]	Measurement accuracy [K]	Stock no.	Product no.	Price (€)
2000	Pt1000	-50...80	At -50...80 °C: ± 0.7	BPZ:QAM2112.200	QAM2112.200	170.30
400	Pt100	-50...80	At -50...80 °C: ± 0.7	BPZ:QAM2110.040	QAM2110.040	79.12
400	Pt1000	-50...80	At -50...80 °C: ± 0.7	BPZ:QAM2112.040	QAM2112.040	79.12
400	LG-Ni1000	-50...80	At -50...80 °C: ± 1.8	BPZ:QAM2120.040	QAM2120.040	89.74
2000	LG-Ni1000	-50...80	At -50...80 °C: ± 1.8	BPZ:QAM2120.200	QAM2120.200	168.99
6000	LG-Ni1000	-50...80	At -50...80 °C: ± 1.8	BPZ:QAM2120.600	QAM2120.600	260.69
400	NTC 10k	-40...80	At -40...80 °C: ± 1.2	BPZ:QAM2130.040	QAM2130.040	72.05

Duct temperature sensor active

QAM21..1..

Fully active, flexible probe for averaging.

Note on fixing:

Supplied complete with mounting flange.

Power consumption

≤ 1 VA

Measuring range, temperature

-50...50 °C

Measurement accuracy

At -50...50 °C: ± 0.9 K

Time constant

30 s at $v = 2$ m/s

Immersion length

400 mm

Connection, electrical

Screw terminals

Type of fixing

Flange

Degree of protection

IP54

Dimensions (W x H x D)

80 x 88 x 39 mm

Warranty

5 Years



Range overview QAM21..1..

Signal output temperature	Operating voltage [V]	Probe length [mm]	Data sheet	Stock no.	Product no.	Price (€)
DC 0...10 V	AC 24 DC 13.5...35	400	N1762	BPZ:QAM2161.040	QAM2161.040	191.26
DC 4...20 mA	DC 13.5...35	400	N1762	BPZ:QAM2171.040	QAM2171.040	191.26

Sensors

Temperature

Immersion sensors QAE.. / FT-TP..

2

QAE21..



Immersion temperature sensor, passive

Fixing is made by protection pocket or compression fitting. If for the nominal pressure no entry can be found in the table, no protection pocket is included as standard and the nominal pressure depends on the protection pocket used (see accessories). By using the compression fitting AQE2102 the nominal pressure is 16 bar (PN16).

Data sheet

Time constant

Connection, electrical

Dimensions (W x H x D)

Warranty

N1781

With protection pocket: 30 s

Without protection pocket: 8 s

Screw terminals

80 x 60 x 31 mm

5 Years

Range overview QAE21..

Sensing element, Measuring temperature	Measuring range, temperature [°C]	Measurement accuracy [K]	Immersion length [mm]	Protection pocket	Stock no.	Product no.	Price (€)
Pt1000	-30...130	At -30...130 °C: ±0.95	100	Not included	BPZ:QAE2112.010	QAE2112.010	67.60
Pt1000	-30...130	At -30...130 °C: ±0.95	150	Not included	BPZ:QAE2112.015	QAE2112.015	71.00
LG-Ni1000	-30...130	At -30...130 °C: ±1.3	100	Protection pocket included, PN 10	BPZ:QAE2120.010	QAE2120.010	95.76
LG-Ni1000	-30...130	At -30...130 °C: ±1.3	150	Protection pocket included, PN 10	BPZ:QAE2120.015	QAE2120.015	100.87
LG-Ni1000	-30...130	At -30...130 °C: ±1.3	100	Not included	BPZ:QAE2121.010	QAE2121.010	76.37
NTC 10k	-30...125	At -30...125 °C: ±1.7	100	Not included	BPZ:QAE2130.010	QAE2130.010	61.31
NTC 10k	-30...125	At -30...125 °C: ±1.7	150	Not included	BPZ:QAE2130.015	QAE2130.015	64.45
Pt100	-30...130	At -30...130 °C: ±0.95	150	Not included	BPZ:QAE2111.015	QAE2111.015	71.00
LG-Ni1000	-30...130	At -30...130 °C: ±1.3	150	Not included	BPZ:QAE2121.015	QAE2121.015	81.22
Pt100	-30...130	At -30...130 °C: ±0.95	100	Not included	BPZ:QAE2111.010	QAE2111.010	67.60

Accessories for QAE21..

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Compression fitting with threaded nipple ½"	N1781	BPZ:QAE2102	AQE2102	109.25

Immersion temperature sensor active

QAE21..4

Fixing is made by protection pocket or compression fitting. No protection pocket is included as standard. The nominal pressure depends on the protection pocket used (see accessories). By using the compression fitting AQE2102 the nominal pressure is 16 bar (PN 16).



Power consumption	≤ 1 VA
Measuring range, temperature	-10...120 °C
Measurement accuracy	At 0...70 °C: ±1 K At -10...120 °C: ±1.4 K
Time constant	With protection pocket: 30 s
Material, immersion pocket	Stainless steel
Connection, electrical	Screw terminals
Degree of protection	IP54
Dimensions (W x H x D)	80 x 88 x 39 mm
Warranty	5 Years

Range overview QAE21..4

Signal output temperature	Operating voltage [V]	Immersion length [mm]	Data sheet	Stock no.	Product no.	Price (€)
Modbus RTU	AC 24 DC 13.5...35	100	A6V11610252	S55720-S465	QAE2154.010/MO	205.67
DC 0...10 V	AC 24 DC 13.5...35	100	N1782	BPZ:QAE2164.010	QAE2164.010	186.02
DC 0...10 V	AC 24 DC 13.5...35	150	N1782	BPZ:QAE2164.015	QAE2164.015	195.19
DC 4...20 mA	DC 13.5...35	100	N1782	BPZ:QAE2174.010	QAE2174.010	186.02
DC 4...20 mA	DC 13.5...35	150	N1782	BPZ:QAE2174.015	QAE2174.015	195.19

Immersion temperature sensor Ø 6 mm with cable and fitting

QAE26.9

With connecting cable.

Data sheet	N1790
Sensing element	LG-Ni1000
Measuring range, temperature	-40...180 °C
Sensing element, temperature	LG-Ni1000
Time constant	<3 s
Immersion length	25...260 mm
Material, immersion pocket	Stainless steel
Cable length	1.2 m
Connecting thread	R 1/4"
PN class	PN 40
Diameter	6 mm
Warranty	5 Years



Stock no.	Product no.	Price (€)
BPZ:QAE26.9	QAE26.9	110.96

Sensors

Temperature

Immersion sensors QAE.. / FT-TP..

2

QAE26.9..



Immersion temperature sensor Ø 4 mm with cable and fitting

With connecting cable.

Other technical data identical to QAE26.9

Packaging unit QAE1020.024 100 pieces

Data sheet	N1790
Sensing element	LG-Ni1000
Sensing element, temperature	LG-Ni1000
Measurement accuracy	At -50...180 °C: ±1.75 K
Time constant	<2.5 s
Material, immersion pocket	Stainless steel
Cable length	2 m
Connecting thread	R ¼"
PN class	PN 16
Diameter	4 mm
Warranty	5 Years

Range overview QAE26.9..

Immersion length [mm]	Measuring range, temperature [°C]	Connection cable	Stock no.	Product no.	Price (€)
15...65	-50...180	Silicone	BPZ:QAE26.90	QAE26.90	82.79
15...125	-50...180	Silicone	BPZ:QAE26.91	QAE26.91	84.89
15...240	-50...180	Silicone	BPZ:QAE26.93	QAE26.93	86.85
15...465	-50...180	Silicone	BPZ:QAE26.95	QAE26.95	110.96

QAE3..



Immersion temperature sensor for high temperature

With connection head made of die-cast aluminium.
No protection pocket required.

Data sheet	N1794
Sensing element	Pt100
Sensing element, temperature	Pt100
Time constant	25 s
Material, immersion pocket	Stainless steel
Connection, electrical	Screw terminals
Type of fixing	Protection pocket G½"
PN class	PN 40
Material, housing	Die-cast aluminum
Degree of protection	IP65
Dimensions (W x H x D)	69 x 92 x 81 mm
Warranty	5 Years

Range overview QAE3..

Measuring range, temperature [°C]	Analog output, signal	Immersion length [mm]	Operating voltage [V]	Data sheet	Stock no.	Product no.	Price (€)
-50...200	Passive	160		N1794	BPZ:QAE3010.016	QAE3010.016	254.14
0...200	DC 4...20 mA	160	DC 7.5...30	N1794	BPZ:QAE3075.016	QAE3075.016	542.34
-50...200	Passive	100		N1794	BPZ:QAE3010.010	QAE3010.010	244.97
0...200	DC 4...20 mA	100	DC 7.5...30	N1794	BPZ:QAE3075.010	QAE3075.010	517.45

Protection pocket for QAE21..

Packaging unit	Protection pocket	Material	PN class	Data sheet	Stock no.	Product no.	Price (€)
1 pc	100 mm, G½" LW7	Brass, nickel-plated	PN 10	N1194	BPZ:ALT-SB100	ALT-SB100	17.16
1 pc	150 mm, G½" LW7	Brass, nickel-plated	PN 10	N1194	BPZ:ALT-SB150	ALT-SB150	18.60
1 pc	100 mm; G ½"; 7 mm	Stainless steel V4A	PN 16	N1194	BPZ:ALT-SS100	ALT-SS100	27.12
1 pc	150 mm, G½" LW7	Stainless steel V4A	PN 16	N1194	BPZ:ALT-SS150	ALT-SS150	28.56
1 pc	100 mm, G½" (with flange) LW7	Stainless steel V4A	PN 40	N1194	BPZ:ALT-SSF100	ALT-SSF100	54.76
1 pc	150 mm, G½" (with flange) LW7	Stainless steel V4A	PN 40	N1194	BPZ:ALT-SSF150	ALT-SSF150	61.70

Immersion temperature sensor Pt100, short time constant, for high temperature

With connecting head to DIN.
No protection pocket required.

Data sheet	N1797
Sensing element	Pt100
Measuring range, temperature	-100...450 °C
Sensing element, temperature	Pt100
Time constant	Air v = 1 m/s: <100 s Water v = 0,4 m/s: <5 s
Material, immersion pocket	Stainless steel
Connection, electrical	Screw terminals
PN class	PN 40
Dimensions (W x H x D)	60 x 80 x 85 mm
Warranty	5 Years



FT-TP/..

Range overview FT-TP/..

Immersion length [mm]	Stock no.	Product no.	Price (€)
400	BPZ:FT-TP/400	FT-TP/400	493.87

Sensors

Temperature

Strap-on sensors QAD..

2

QAD2..

Strap-on temperature sensor



Supplied complete with strap for pipe diameters from 15...140 mm.

Data sheet

N1801

Warranty

5 Years

Range overview QAD2..

Sensing element, temperature	Measuring range, temperature [°C]	Time constant [s]	Dimensions (WxHxD) [mm]	Stock no.	Product no.	Price (€)
Pt100	-30...130	3	60 x 67 x 43	BPZ:QAD2010	QAD2010	37.34
LG-Ni1000	-30...130	3	60 x 67 x 43	BPZ:QAD22	QAD22	47.82
Pt1000	-30...130	3	60 x 67 x 43	BPZ:QAD2012	QAD2012	37.34
NTC 10k	-30...125	6	60 x 67 x 43	BPZ:QAD2030	QAD2030	34.98

QAD26.220

Strap-on temperature sensor with cable LG-Ni1000



With cable, without housing

Supplied complete with strap for pipe diameters from 10...50 mm.

Data sheet

N1802

Measuring range, temperature

-35...90 °C

Time constant

<10 s

Cable length

2 m

Warranty

5 Years

	Stock no.	Product no.	Price (€)
	BPZ:QAD26.220	QAD26.220	50.04

Outside sensor, passive

QAC2../3..

For acquiring the outside temperature and – to a lesser degree – solar radiation, the effect of wind and the temperature of the wall.

Data sheet

N1811

Warranty

5 Years



Range overview QAC..

Measuring range, temperature [°C]	Sensing element, temperature	Measurement accuracy [K]	Time constant [s]	Dimensions (WxHxD) [mm]	Stock no.	Product no.	Price (€)
-50...70	Pt100	0 °C: ±0.3	840	80 x 92 x 50	BPZ:QAC2010	QAC2010	30.52
-50...70	Pt1000	0 °C: ±0.3	840	80 x 92 x 50	BPZ:QAC2012	QAC2012	30.52
-50...70	LG-Ni1000	0 °C: ±0.4	840	80 x 92 x 50	BPZ:QAC22	QAC22	41.27
-50...70	NTC 575	At -10...20 °C: ±1	720	80 x 92 x 50	BPZ:QAC32	QAC32	60.26
-40...70	NTC 10k	25 °C: ±0.46	840	80 x 92 x 50	BPZ:QAC2030	QAC2030	25.55

Outside temperature sensor active

QAC31..

Active sensor for acquiring the outside temperature. For use in heating, ventilation and air conditioning plants.

The QAC31.. may be used as an high-quality room sensor.

Data sheet

N1814

Sensing element, temperature

Pt1000

Measuring range, temperature

-50...50 °C

Time constant

20 min

Connection, electrical

Screw terminals

Degree of protection

IP65

Warranty

5 Years



Range overview QAC31..

Analog output, signal	Operating voltage [V]	Measurement accuracy [K]	Dimensions (WxHxD) [mm]	Stock no.	Product no.	Price (€)
DC 0...10 V	AC 24 DC 13.5...35	At -50...50 °C: ±0.9	80 x 88 x 39	BPZ:QAC3161	QAC3161	146.72
DC 4...20 mA	DC 13.5...35	At -50...50 °C: ±0.9	80 x 88 x 39	BPZ:QAC3171	QAC3171	146.72

Sensors

Temperature

Cable sensors QAP.. / QAZ.. / QAH..

2

QAP20..



Cable temperature sensor (6 x 40.5 mm) for HVAC applications

Data sheet	N1831
Time constant	Fitted to pipe: <20 s
Protection pocket	40,5 x 6 mm
Material, protection pocket	Stainless steel
Type of fixing	Cable tie or with accessories
Degree of protection	IP65
Warranty	5 Years

Range overview QAP..

Cable length [m]	Sensing element, temperature	Connection cable	Measurement accuracy [K]	Measuring range, temperature [°C]	Dimensions (WxHxD) [mm]	Stock no.	Product no.	Price (€)
1.5	Pt100	Silicone	At -30...130 °C: ±0.95	-30...130	40.5 x 6 x 6	BPZ:QAP2010.150	QAP2010.150	43.23
1.5	Pt1000	Silicone	At -30...130 °C: ±0.95	-30...130		BPZ:QAP2012.150	QAP2012.150	43.23
1.5	LG-Ni1000	Silicone	At -30...130 °C: ±1.3	-30...130		BPZ:QAP21.3	QAP21.3	58.56
8	LG-Ni1000	Silicone	At -30...130 °C: ±1.3	-30...130		BPZ:QAP21.3/8000	QAP21.3/8000	90.65
2	LG-Ni1000	PVC	At -30...130 °C: ±1.3	-25...95		BPZ:QAP22	QAP22	26.59
2	NTC 10k	PVC	At -25...95 °C: ±1.4	-25...95		BPZ:QAP1030.200	QAP1030.200	22.27

QAP21.2



Cable temperature sensor for high-temperature applications (180°C)

For acquiring the water temperature in flat solar collectors.

Data sheet	N1833
Measuring range, temperature	-30...180 °C
Sensing element, temperature	LG-Ni1000
Sensing element	LG-Ni1000
Measurement accuracy	At -30...180 °C: ±1.65 K
Time constant	Fitted to pipe: <20 s
Protection pocket	50 x 6 mm
Material, protection pocket	Stainless steel
Connection cable	Silicone
Cable length	1.5 m
Degree of protection	IP67
Warranty	5 Years

Stock no.	Product no.	Price (€)
BPZ:QAP21.2	QAP21.2	74.67

Cable sensor for fan coil applications

QAH11..



For installation in fan coil units as

- a return air temperature sensor
- a changeover sensor

Data sheet	N1840
Sensing element, temperature	NTC 3k
Sensing element	NTC 3k
Measuring range	For fixed cable
Measuring range, temperature	-20...70 °C
Time constant	1.5 min at v = 0 m/s
Cable length	2.5 m
Warranty	5 Years

Range overview QAH11..

Connection cable	Packaging unit	Stock no.	Product no.	Price (€)
2-wire, cable complete with connectors	10 pieces	BPZ:QAH11	QAH11	31.44
2-wire Ferrules	10 pieces	BPZ:QAH11.1	QAH11.1	23.58

Accessories for QAP..

Product Title	Packaging unit	Data sheet	Stock no.	Product no.	Price (€)
Cable holder for protection pocket mounting		N1831	BPZ:421314160	421314160	6.05
Changeover cable holder for QAP..	Set of 10 pieces	N1831	BPZ:ARG22.1	ARG22.1	4.09
Aluminium bar attachment for QAP..	Set of 5 pieces	N1831	BPZ:ARG22.2	ARG22.2	8.86

Cable temperature sensor for use in refrigeration plants (-50 °C)

QAZ21.68..



Supplied complete with 2 cable ties and sleeve coated with thermal conductive wax for fitting to pipework.

Data sheet	N1848
Measuring range, temperature	-50...80 °C
Sensing element, temperature	LG-Ni1000
Time constant	Fitted to pipework <20 s
Material, protection pocket	Stainless steel
Protection pocket	50 x 6 mm
Warranty	5 Years

Range overview QAZ21.68..

Cable length [m]	Packaging unit	Stock no.	Product no.	Price (€)
2	1 piece	BPZ:QAZ21.682/101	QAZ21.682/101	72.05

Sensors

Temperature

Window pan and flue gas sensors: QAT../FGT..

2

QAT22



Window pane temperature sensor

Data sheet	N1830
Measuring range, temperature	-10...50 °C
Sensing element, temperature	LG-Ni1000
Sensing element	LG-Ni1000
Measurement accuracy	At 0 °C: ±0.4 K
Time constant	30 s
Connection cable	2-wire
Cable length	1.5 m
Degree of protection	IP65
Dimensions (W x H x D)	19 x 12 x 37 mm
Warranty	5 Years

Stock no.	Product no.	Price (€)
BPZ:QAT22	QAT22	175.54

FGT-PT1000



Flue gas temperature sensor Pt1000

For measuring the flue gas temperature in flueways.

Data sheet	N1846
Measuring range, temperature	-20...400 °C
Sensing element	Pt1000
Sensing element, temperature	Pt1000
Immersion length	65 mm
Material, immersion pocket	Sensor sleeve, stainless steel
Connection cable	2-wire, 1.5 m, teflon with steel wire mesh
Cable length	1.5 m
Material	Stainless steel V4A
Dimensions (W x H x D)	150 x 80 x 30 mm
Warranty	5 Years

Stock no.	Product no.	Price (€)
BPZ:FGT-PT1000	FGT-PT1000	576.40

Duct hygrostat, setpoint setting range 15...95 % r.h.

QFM81.2



On / off hygrostat with humidity sensor.
External setpoint adjustment.

Supplied complete with mounting flange.

Data sheet	N1514
Setpoint setting range	15...95 % r.h.
Switching differential	4 % r.h.
Digital outputs	CO: 1
	Potential-free
Immersion length	130...156 mm
Digital output, switching current	5 (3) A
Digital output, switching voltage	250 V
Degree of protection	IP30
Dimensions (W x H x D)	73 x 140 x 64 mm
Warranty	5 Years

Stock no.	Product no.	Price (€)
BPZ:QFM81.2	QFM81.2	243.66

Room hygrostat, setpoint setting range 15...95 % r.h., setpoint adjuster inside device

QFM81.21



On / off hygrostat with humidity sensor.
Setpoint adjuster inside device.

Supplied complete with mounting flange.

Data sheet	N1514
Setpoint setting range	15...95 % r.h.
Switching differential	4 % r.h.
Digital outputs	CO: 1
	Potential-free
Immersion length	130...156 mm
Digital output, switching current	5 (3) A
Digital output, switching voltage	250 V
Degree of protection	IP55
Dimensions (W x H x D)	73 x 140 x 64 mm
Warranty	5 Years

Stock no.	Product no.	Price (€)
BPZ:QFM81.21	QFM81.21	322.26

Sensors

Humidity and temperature

Room sensors QFA..

2

Accessories for QFA..

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Radiation shield for exterior wall mounting	N1858	BPZ:AQF3100	AQF3100	227.94
Filter cap for humidity sensor	N1858	BPZ:AQF3101	AQF3101	25.94
Exchangeable measuring tip	N1858	BPZ:AQF3150	AQF3150	305.23
Service-Set		BPZ:AQF3153	AQF3153	672.03
Exchangeable measuring tip, with calibration certificate	N1859	BPZ:AQF4150	AQF4150	448.02

QFA20..



Room sensor for rel. humidity / temperature

For relative humidity and temperature.

Data sheet	N1857
Measurement range humidity	0...95 % r.h.
Measurement accuracy	At 0...95 % r.h. and 23 °C: ±5 % At 30...70 % r.h. and 23 °C: ±3 %
Time constant	Humidity <20 s Temperature <8.5 min
Warranty	5 Years

Range overview QFA20..

Signal output humidity	Signal output temperature	Operating voltage [V]	Measuring range, temperature [°C]	Display	Dimensions (WxHxD) [mm]	Stock no.	Product no.	Price (€)
DC 4...20 mA	DC 4...20 mA	DC 13.5...35	0...50 -35...35 -40...70		90 x 100 x 36	S55720-S115	QFA2071	271.17
DC 0...10 V	LG-Ni1000	AC 24 DC 13.5...35	0...50		90 x 100 x 36	BPZ:QFA2020	QFA2020	263.31
DC 0...10 V	DC 0...10 V	AC 24 DC 13.5...35	0...50 -35...35 -40...70	LCD	90 x 100 x 36	BPZ:QFA2060D	QFA2060D	334.05
DC 0...10 V		AC 24 DC 13.5...35			90 x 100 x 36	BPZ:QFA2000	QFA2000	256.76
DC 4...20 mA		DC 13.5...35 24 DC 13.5...35			90 x 100 x 36	S55720-S114	QFA2001	256.76
DC 0...10 V	DC 0...10 V	AC 24 DC 13.5...35	0...50 -35...35 -40...70		90 x 100 x 36	BPZ:QFA2060	QFA2060	271.17

QFA31..



2

Room sensors for rel. humidity / temperature for demanding requirements

For relative humidity and temperature.
Degree of protection: IP65, IP40 (measuring tip).

Data sheet	N1858
Measurement range humidity	0...100 % r.h.
Measurement accuracy	Humidity at 0...100 % r.h. and 23 °C: ± 2 % r.h. Temperature, at 15...35 °C: ± 0.6 K Temperature, at 40...70 °C: ± 0.8 K
Time constant	Humidity: <20 s Temperature: <8.5 min
Connection, electrical	Screw terminals
Degree of protection	IP65 / IP40
Dimensions (W x H x D)	80 x 144 x 39 mm
Warranty	5 Years

Range overview QFA31..

Signal output humidity	Signal output temperature	Operating voltage [V]	Measuring range, temperature [°C]	Display	Stock no.	Product no.	Price (€)
DC 0...10 V		AC 24 DC 13.5...35			BPZ:QFA3100	QFA3100	398.24
DC 4...20 mA		DC 13.5...35			BPZ:QFA3101	QFA3101	398.24
DC 4...20 mA	DC 4...20 mA	DC 13.5...35	0...50 -35...35 -40...70	LCD	BPZ:QFA3171D	QFA3171D	484.70
DC 4...20 mA	DC 4...20 mA	DC 13.5...35	0...50 -35...35 -40...70		BPZ:QFA3171	QFA3171	420.51
DC 0...10 V	DC 0...10 V	AC 24 DC 13.5...35	0...50 -35...35 -40...70		BPZ:QFA3160	QFA3160	420.51
DC 0...10 V	DC 0...10 V	AC 24 DC 13.5...35	0...50 -35...35 -40...70	LCD	BPZ:QFA3160D	QFA3160D	484.70

QFA41..


Room sensors for rel. humidity / temperature for demanding requirements, with calibration certificate

For relative humidity and temperature.
Degree of protection: IP65, IP40 (measuring tip).

Data sheet

Measurement range humidity

Measurement accuracy

Time constant

Connection, electrical

Degree of protection

Dimensions (W x H x D)

Warranty

N1859

0...100 % r.h.

Humidity at 0...100 % r.h. and 23 °C: ± 2 % r.h.

Temperature, at 15...35 °C: ± 0.6 K

Temperature, at 40...70 °C: ± 0.8 K

Humidity: <20 s

Temperature: <8.5 min

Round connector

IP65 / IP40

80 x 144 x 39 mm

5 Years

Range overview QFA41..

Signal output humidity	Signal output temperature	Operating voltage [V]	Measuring range, temperature [°C]	Display	Stock no.	Product no.	Price (€)
DC 0...10 V	DC 0...10 V	AC 24 DC 13.5...35	0...50 -35...35 -40...70	---	BPZ:QFA4160	QFA4160	1152.80
DC 0...10 V	DC 0...10 V	AC 24 DC 13.5...35	0...50 -35...35 -40...70	LCD	BPZ:QFA4160D	QFA4160D	1230.09
DC 4...20 mA	DC 4...20 mA	DC 13.5...35	0...50 -35...35 -40...70	LCD	BPZ:QFA4171D	QFA4171D	1230.09
DC 4...20 mA	DC 4...20 mA	DC 13.5...35	0...50 -35...35 -40...70	---	BPZ:QFA4171	QFA4171	1152.80

Accessories for room sensors QFA..

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Front module for base modules, temperature (active)	N1411	S55720-S136	AQR2532NNW	46.77
Front module for base modules, humidity and temperature (active)	N1411	S55720-S141	AQR2535NNW	184.71
Base module for temperature and / or humidity measurement, with KNX / PL-Link, 64 x 110	N1411	S55720-S206	AQR2570NJ	167.68
Base module for CO ₂ measurement, with KNX / PL-Link, 64 x 110 mm	N1411	S55720-S210	AQR2576NJ	334.05

Sensors

Humidity and temperature

Room sensors - flush mounted AQR25..

2

AQR253..



Front modules for base module

- Front module with sensors

Data sheet	N1411
Color	Titanium white
Degree of protection	IP30
Warranty	5 Years

Range overview AQR253..

Measuring range, temperature [°C]	Signal output temperature	Measurement range humidity [% r.h.]	Display	Dimensions (WxHxD) [mm]	Stock no.	Product no.	Price (€)
0...50	Active			55 x 55 x 12	S55720-S137	AQR2530NNW	26.72
0...50	Active			55 x 55 x 12	S55720-S136	AQR2532NNW	46.77
0...50	Active LG-Ni1000	0...100		55 x 55 x 12	S55720-S138	AQR2534ANW	176.85
0...50	Active	0...100		55 x 55 x 12	S55720-S141	AQR2535NNW	184.71
0...50	Active	0...100	CO ₂ indicator by LED	55 x 55 x 38	S55720-S219	AQR2535NNWQ	184.71

The matching design frame must be ordered separately.

AQR2540..



Base modules for temperature and humidity measurement

- Base module without sensor for plugging onto a front module

Data sheet	N1410
Operating voltage	AC 24 V DC 15...36 V
Connection, electrical	Screw terminals
Analog output, signal	DC 0...10 V DC 2...10 V DC 0...5 V DC 0...20 mA DC 4...20 mA DC 0...10 mA
Digital outputs	CO: 1 Potential-free
Warranty	5 Years

Range overview AQR2540..

Mechanical design	Dimensions (WxHxD) [mm]	Stock no.	Product no.	Price (€)
EU (CEE/VDE)	71 x 71 x 45	S55720-S142	AQR2540NF	108.86
IT (3 modular)	71 x 71 x 45	S55720-S144	AQR2540NG	108.86
UK (British Standard)	71 x 71 x 45	S55720-S143	AQR2540NH	108.86

Base module with KNX for temperature and humidity measurement

AQR2570..

- Base module without sensor for plugging onto a front module
- 1 analog input to connect temperature sensors with NTC 10k sensing element to measure room, floor, or ceiling temperature
- 2 multifunctional binary inputs to connect window contacts or buttons
- Power supply via KNX bus, bus load < 5 mA
- Communication: KNX S-Mode, KNX LTE-Mode (Synco)



Data sheet	N1411
Voltage supply	KNX bus
Analog inputs, number	1
Analog inputs	Passive temperature sensor NTC 10k
Digital inputs, number	2
Digital inputs	Potential-free contacts
Warranty	5 Years

Range overview AQR2570..

Mechanical design	Dimensions (WxHxD) [mm]	Stock no.	Product no.	Price (€)
EU (CEE/VDE)	71 x 71 x 45	S55720-S203	AQR2570NF	167.68
IT (3 Modular)	71 x 71 x 45	S55720-S205	AQR2570NG	167.68
UK (British Standard)	71 x 71 x 45	S55720-S204	AQR2570NH	167.68
US (UL)	64 x 110 x 45	S55720-S206	AQR2570NJ	167.68

Sensors

Humidity and temperature

Room hygrostats: QFA..

2

QFA1000



Room hygrostat, setpoint setting range 30...90 % r.h., setpoint adjuster inside device

- 2-position controller with humidity sensor
- Setpoint adjuster inside device

Data sheet	N1518
Setpoint setting range	30...90 % r.h.
Switching differential	6 % r.h.
Time constant	At v = 0.2 m/s: 5 min
Digital outputs	CO: 1
	Potential-free
Connection, electrical	Screw terminals
Degree of protection	IP20
Warranty	5 Years

Stock no.	Product no.	Price (€)
BPZ:QFA1000	QFA1000	99.56

QFA1001



Room hygrostat, setpoint setting range 30...90 % r.h., external setpoint adjustment

- 2-position controller with humidity sensor
- External setpoint adjustment

Data sheet	N1518
Setpoint setting range	30...90 % r.h.
Switching differential	6 % r.h.
Digital outputs	CO: 1
	Potential-free
Connection, electrical	Screw terminals
Degree of protection	IP20
Warranty	5 Years

Stock no.	Product no.	Price (€)
BPZ:QFA1001	QFA1001	101.26

QFM2160U

Warranty 5 Years

Stock no.	Product no.	Price (€)
BPZ:QFM2160U	QFM2160U	212.00

Duct sensor for rel. humidity / temperature

For relative humidity and temperature.

Measurement range humidity	0...95 % r.h.
Measurement accuracy	Humidity at 30...70 % r.h. and 23 °C: ±3 % r.h. Temperature, at 15...35 °C: ±0.8 K Temperature, at 35...50 °C: ±1.0 K
Time constant	Humidity: <20 s Temperature in with 2 m/s moved air: <3.5 min
Immersion length	90...154 mm
Connection, electrical	Screw terminals
Type of fixing	Flange
Degree of protection	IP54
Dimensions (W x H x D)	80 x 88 x 39 mm
Warranty	5 Years

QFM21..



Range overview QFM21..

Signal output humidity	Signal output temperature	Operating voltage [V]	Measuring range, temperature [°C]	Data sheet	Stock no.	Product no.	Price (€)
Modbus RTU	Modbus RTU	AC 24 DC 13.5...35	-40...+70	A6V11610635	S55720-S467	QFM2150/MO	305.23
DC 0...10 V		AC 24 DC 13.5...35		N1864	BPZ:QFM2100	QFM2100	269.86
DC 4...20 mA		DC 13.5...35		N1864	BPZ:QFM2101	QFM2101	269.86
DC 0...10 V	LG-Ni1000	AC 24 DC 13.5...35	0...50 -35...35 -40...70	N1864	BPZ:QFM2120	QFM2120	298.68
DC 0...10 V	DC 0...10 V	AC 24 DC 13.5...35	0...50 -35...35 -40...70	N1864	BPZ:QFM2160	QFM2160	282.96
DC 4...20 mA	DC 4...20 mA	DC 13.5...35	0...50 -35...35 -40...70	N1864	BPZ:QFM2171	QFM2171	282.96

Duct sensor for humidity (0...10 V) and temperature (0...10 V)

Active sensor for acquiring the air humidity and temperature in air duct

Data sheet	Q3731
Operating voltage	AC 24 V
Measurement range humidity	10...90 % r.h.
Measurement accuracy	25 °C: ±0.8 K At 20...25 % r.h., 10...90 % r.h.: ±5 % r.h.
Analog output, signal	DC 0...10 V
Signal output temperature	DC 0...10 V
Signal output humidity	DC 0...10 V
Warranty	5 Years

QFM1660



Stock no.	Product no.	Price (€)
S55720-S198	QFM1660	197.81

QFM31..



Duct sensors for rel. humidity / temperature for demanding requirements

For relative humidity and temperature.

Measurement range humidity	0...100 % r.h.
Measurement accuracy	Humidity at 0...100 % r.h. and 23 °C: ± 2 % r.h. Temperature, at 15...35 °C: ± 0.6 K Temperature, at 40...70 °C: ± 0.8 K
Immersion length	90...206 mm
Connection, electrical	Screw terminals
Type of fixing	Flange
Degree of protection	IP65
Dimensions (W x H x D)	80 x 88 x 39 mm
Warranty	5 Years

Range overview QFM31..

Signal output humidity	Signal output temperature	Operating voltage [V]	Measuring range, temperature [°C]	Data sheet	Stock no.	Product no.	Price (€)
Modbus RTU	Modbus RTU	AC 24 DC 13.5...35	-40...+70	A6V11610638	S55720-S468	QFM3150/MO	451.95
DC 0...10 V		AC 24 DC 13.5...35		N1882	BPZ:QFM3100	QFM3100	398.24
DC 0...10 V	DC 0...10 V	AC 24 DC 13.5...35	0...50 -35...35 -40...70	N1882	BPZ:QFM3160	QFM3160	420.51
DC 4...20 mA	DC 4...20 mA	DC 13.5...35	0...50 -35...35 0...70	N1882	BPZ:QFM3171	QFM3171	420.51

QFM31..D



Duct sensors for rel. humidity / temperature for demanding requirements

For relative humidity and temperature.

Data sheet	N1882
Measurement range humidity	0...100 % r.h.
Measurement accuracy	Humidity at 0...100 % r.h. and 23 °C: ± 2 % r.h. Temperature, at 15...35 °C: ± 0.6 K Temperature, at 40...70 °C: ± 0.8 K
Immersion length	90...206 mm
Connection, electrical	Screw terminals
Type of fixing	Flange
Degree of protection	IP65
Dimensions (W x H x D)	80 x 88 x 39 mm
Warranty	5 Years

Range overview QFM31..D

Signal output humidity	Signal output temperature	Operating voltage [V]	Measuring range, temperature [°C]	Display	Stock no.	Product no.	Price (€)
DC 4...20 mA	DC 4...20 mA	DC 13,5...35	0...50 -35...35 -40...70	LCD	BPZ:QFM3171D	QFM3171D	484.70
DC 0...10 V	DC 0...10 V	AC 24 DC 13.5...35	0...50 -35...35 -40...70	LCD	BPZ:QFM3160D	QFM3160D	484.70

QFM41...



2

Duct sensor for rel. humidity/temperature for demanding requirements, with calibration certificate

For relative humidity and temperature.

Data sheet	N1883
Measurement range humidity	0...100 % r.h.
Measurement accuracy	Humidity at 0...100 % r.h. and 23 °C: ± 2 % r.h. Temperature, at 15...35 °C: ± 0.6 K Temperature, at 40...70 °C: ± 0.8 K
Time constant	Humidity: <20 s Temperature in with 2 m/s moved air: <3.5 min
Immersion length	90...206 mm
Connection, electrical	Round connector
Type of fixing	Flange
Degree of protection	IP65
Dimensions (W x H x D)	80 x 117 x 39 mm
Warranty	5 Years

Range overview QFM41..

Signal output humidity	Signal output temperature	Operating voltage [V]	Measuring range, temperature [°C]	Stock no.	Product no.	Price (€)
DC 0...10 V	DC 0...10 V	AC 24 DC 13.5...35	0...50 -35...35 -40...70	BPZ:QFM4160	QFM4160	1152.80
DC 4...20 mA	DC 4...20 mA	DC 13.5...35	0...50 -35...35 -40...70	BPZ:QFM4171	QFM4171	1152.80

Accessories for duct sensors QFM..

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Filter cap for humidity sensor	N1858	BPZ:AQF3101	AQF3101	25.94
Exchangeable measuring tip	N1858	BPZ:AQF3150	AQF3150	305.23
Service-Set		BPZ:AQF3153	AQF3153	672.03
Exchangeable measuring tip, with calibration certificate	N1859	BPZ:AQF4150	AQF4150	448.02

Sensors

Humidity and temperature

Condensation monitor QXA..

2

QXA21..



Condensation monitor

For preventing condensation in buildings with chilled ceilings or in cooling plants.

Data sheet	A6V10741072
Operating voltage	AC 24 V DC 24 V
Power consumption	1 VA
Digital outputs	1-pin Potential-free Changeover contact
Switching point	95 ± 4 % r.h.
Connection, electrical	Screw terminals
Degree of protection	IP40
Dimensions (W x H x D)	60 x 83 x 37 mm
Warranty	5 Years

Range overview QXA21..

Product Title	Stock no.	Product no.	Price (€)
Condensation monitor	S55770-T375	QXA2100	144.10
Condensation monitor with remote sensor head (cable length 1 m)	S55770-T376	QXA2101	179.47

AQR253..



2

Front modules for base module

- Front module with sensors

Data sheet	N1411
Color	Titanium white
Degree of protection	IP30
Warranty	5 Years

Range overview AQR253..

Measuring range, temperature [°C]	Signal output temperature	Measurement range humidity [% r.h.]	Display	Dimensions (WxHxD) [mm]	Stock no.	Product no.	Price (€)
0...50	Active			55 x 55 x 12	S55720-S137	AQR2530NNW	26.72
0...50	Active	0...100		55 x 55 x 12	S55720-S136	AQR2532NNW	46.77
0...50	Active LG-Ni1000	0...100		55 x 55 x 12	S55720-S138	AQR2534ANW	176.85
0...50	Active	0...100		55 x 55 x 12	S55720-S141	AQR2535NNW	184.71
0...50	Active	0...100	CO ₂ indicator by LED	55 x 55 x 38	S55720-S219	AQR2535NNWQ	184.71

The matching design frame must be ordered separately.

Base modules with integrated VOC measurement

- Base module with VOC sensing element to plug onto a front module

Data sheet	N1410
Operating voltage	AC 24 V
DC 15...36 V	
Analog output, signal	DC 0...10 V
	DC 2...10 V
	DC 0...5 V
	DC 0...20 mA
	DC 4...20 mA
	DC 0...10 mA
Connection, electrical	Screw terminals
Digital outputs	1-pin
	Potential-free
	Changeover contact
Warranty	5 Years

AQR2547..



Range overview AQR2547..

Measuring range	Mechanical design	Dimensions (WxHxD) [mm]	Stock no.	Product no.	Price (€)
0...100 % VOC	EU (CEE/VDE)	71 x 71 x 45	S55720-S146	AQR2547NF	314.40

Sensors

Air quality

Room sensor flush mounted AQR25..

2

AQR253..



Front modules for base module

- Front module with sensors

Data sheet	N1411
Color	Titanium white
Degree of protection	IP30
Warranty	5 Years

Range overview AQR253..

Measuring range, temperature [°C]	Signal output temperature	Measurement range humidity [% r.h.]	Display	Dimensions (WxHxD) [mm]	Stock no.	Product no.	Price (€)
0...50	Active			55 x 55 x 12	S55720-S137	AQR2530NNW	26.72
0...50	Active			55 x 55 x 12	S55720-S136	AQR2532NNW	46.77
0...50	Active LG-Ni1000	0...100		55 x 55 x 12	S55720-S138	AQR2534ANW	176.85
0...50	Active	0...100		55 x 55 x 12	S55720-S141	AQR2535NNW	184.71
0...50	Active	0...100	CO ₂ indicator by LED	55 x 55 x 38	S55720-S219	AQR2535NNWQ	184.71

The matching design frame must be ordered separately.

AQR2576..



Base modules with KNX for CO₂ measurement

- Base module with maintenance and recalibration-free CO₂ sensor to plug onto a front module
- 1 analog input to connect temperature sensors with NTC 10k sensing element to measure room, floor, or ceiling temperature
- 2 multifunctional binary inputs to connect window contacts or buttons
- Power supply via KNX bus, bus load < 5 mA
- Communication: KNX S-Mode, KNX LTE-Mode (Synco)



Data sheet	N1411
Voltage supply	KNX bus
Measuring range	CO ₂ : 0...5000 ppm
Analog inputs, number	1
Analog inputs	Passive temperature sensor NTC 10k
Digital inputs, number	2
Digital inputs	Potential-free contacts
Warranty	5 Years

Range overview AQR2576..

Mechanical design	Dimensions (WxHxD) [mm]	Stock no.	Product no.	Price (€)
EU (CEE/VDE)	71 x 71 x 45	S55720-S207	AQR2576NF	334.05
IT (3 Modular)	71 x 71 x 45	S55720-S209	AQR2576NG	334.05
UK (British Standard)	71 x 71 x 45	S55720-S208	AQR2576NH	351.08
US (UL)	64 x 110 x 45	S55720-S210	AQR2576NJ	334.05

Base modules with integrated CO₂ measurement

AQR2546..

- Base module with maintenance-free CO₂ sensing element to plug onto a front module

Data sheet	N1410
Operating voltage	AC 24 V DC 15...36 V DC 0...10 V DC 2...10 V DC 0...5 V DC 0...20 mA DC 4...20 mA DC 0...10 mA
Analog output, signal	
Connection, electrical	Screw terminals
Digital outputs	1-pin Potential-free Changeover contact
Warranty	5 Years



Range overview AQR2546..

Measuring range [ppm CO ₂]	Mechanical design	Dimensions (WxHxD) [mm]	Stock no.	Product no.	Price (€)
0...2000	EU (CEE/VDE)	71 x 71 x 45	S55720-S147	AQR2546NF	471.60
0...2000	IT (3 modular)	71 x 71 x 45	S55720-S153	AQR2546NG	471.60
0...2000	UK (British Standard)	71 x 71 x 45	S55720-S150	AQR2546NH	471.60

Front modules for base module

AQR253..

- Front module with sensors

Data sheet	N1411
Color	Titanium white
Degree of protection	IP30
Warranty	5 Years



Range overview AQR253..

Measuring range, temperature [°C]	Signal output temperature	Measurement range humidity [% r.h.]	Display	Dimensions (WxHxD) [mm]	Stock no.	Product no.	Price (€)
0...50	Active			55 x 55 x 12	S55720-S137	AQR2530NNW	26.72
0...50	Active			55 x 55 x 12	S55720-S136	AQR2532NNW	46.77
0...50	Active LG-Ni1000	0...100		55 x 55 x 12	S55720-S138	AQR2534ANW	176.85
0...50	Active	0...100		55 x 55 x 12	S55720-S141	AQR2535NNW	184.71
0...50	Active	0...100	CO ₂ indicator by LED	55 x 55 x 38	S55720-S219	AQR2535NNWQ	184.71

The matching design frame must be ordered separately.

Sensors

Air quality

Room sensor flush mounted AQR25..

2

AQR2548..



Base modules with integrated CO₂ and VOC measurement

- Base module with maintenance-free CO₂/VOC sensing element to plug onto a front module

Data sheet	N1410
Operating voltage	AC 24 V DC 15...36 V DC 0...10 V DC 2...10 V DC 0...5 V DC 0...20 mA DC 4...20 mA DC 0...10 mA
Analog output, signal	
Connection, electrical	Screw terminals
Digital outputs	CO: 1 Potential-free
Warranty	5 Years

Range overview AQR2548..

Measuring range	Mechanical design	Dimensions (WxHxD) [mm]	Stock no.	Product no.	Price (€)
0...2000 ppm CO ₂ 0...100 % VOC	EU (CEE/VDE)	71 x 71 x 45	S55720-S148	AQR2548NF	603.91

Duct air quality sensor CO₂/ temperature / rel. humidity / VOC

QPM21..

Note: Not suited for safety-related applications!

Data sheet	N1962
Operating voltage	AC 24 V DC 15...35 V
Power consumption	2 VA
Max. air velocity	≤ 10 m/s
Ambient temperature, operation	-5...45 °C
Connection, electrical	Screw terminals
Analogue output, signal	DC 0...10 V DC 0...5 V DC 0...20 mA
Degree of protection	IP54
Dimensions (W x H x D)	80 x 88 x 274 mm
Warranty	5 Years



Range overview QPM..

Measuring range	Measuring range, temperature [°C]	Measurement range humidity [% r.h.]	Immersion length [mm]	Display	Stock no.	Product no.	Price (€)
0...100 % VOC			70...135		S55720-S123	QPM1100	345.84
0...2000 ppm CO ₂			70...135	LCD	BPZ:QPM2102D	QPM2102D	892.11
0...100 % VOC							
0...2000 ppm CO ₂	0...50 -35...35		100...165	LCD	BPZ:QPM2160D	QPM2160D	881.63
0...2000 ppm CO ₂			100...165		S55720-S124	QPM2180	766.35
0...2000 ppm CO ₂			70...135		BPZ:QPM2100	QPM2100	669.41
0...2000 ppm CO ₂			70...135		BPZ:QPM2102	QPM2102	818.75
0...100 % VOC							
0...2000 ppm CO ₂	0...50 -35...35		100...165		BPZ:QPM2160	QPM2160	741.46
0...2000 ppm CO ₂	0...50 -35...35	0...95	100...165		BPZ:QPM2162	QPM2162	865.91
0...2000 ppm CO ₂	0...50 -35...35	0...95	100...165	LCD	BPZ:QPM2162D	QPM2162D	940.58

The passive temperature element within the QPM2180 is freely selectable, enclosed in the delivery are LG-Ni1000, Pt1000, Pt100, NTC 10kOhm.

Sensors

Air quality

Duct sensor QPM..

2

QPM../MO



Duct air quality sensor CO₂/ temperature / rel. humidity / VOC; Modbus

Note: Not suited for safety-related applications!

Data sheet	A6V11610641
Operating voltage	AC 24 V DC 15...35 V
Power consumption	2 VA
Max. air velocity	≤ 10 m/s
Ambient temperature, operation	-5...+45 °C
Connection, electrical	Screw terminals
Degree of protection	IP54
Dimensions (W x H x D)	80 x 88 x 274 mm
Communication	Modbus RTU (RS-485)
Warranty	5 Years

Range overview QPM../MO

Measuring range [ppm CO ₂]	Measuring range, temperature [°C]	Measurement range humidity [% r.h.]	Immersion length [mm]	Stock no.	Product no.	Price (€)
0...2000	-35...+50	0... 100	100... 165	S55720-S471	QPM2152/MO	927.48

QPM1..4



Duct air quality sensor CO₂/ temperature (Basic)

Note: Not suited for safety-related applications!

Data sheet	A6V101101338
Operating voltage	AC 24 V DC 15...35 V
Analog output, signal	DC 0...10 V DC 4...20 mA
Degree of protection	IP54
Dimensions (W x H x D)	80 x 88 x 278 mm
Warranty	5 Years

Range overview QPM1..4

Measuring range [ppm]	Measuring range, temperature [°C]	Stock no.	Product no.	Price (€)
0...2000		S55720-S455	QPM1104	432.30
0...2000	0...50	S55720-S456	QPM1164	510.90



Room air quality sensor CO₂/ temperature / rel. Humidity / VOC

Note: Not suited for safety-related applications!

Data sheet	N1961
Operating voltage	AC 24 V
	DC 15...35 V
Analog output, signal	DC 0...5 V
	DC 0...10 V
	DC 4...20 mA
Ambient temperature, operation	0...50 °C
Connection, electrical	Screw terminals
Degree of protection	IP30
Warranty	5 Years

Range overview QPA..

Measuring range	Measuring range, temperature [°C]	Measurement range humidity	Display	Dimensions (WxHxD) [mm]	Stock no.	Product no.	Price (€)
0...100 % VOC				90 x 100 x 36	S55720-S119	QPA1000	280.34
0...2000 ppm CO ₂				90 x 100 x 36	BPZ:QPA2000	QPA2000	482.08
0...2000 ppm CO ₂				90 x 100 x 36	BPZ:QPA2002	QPA2002	610.46
0...100 % VOC							
0...2000 ppm CO ₂			LCD	90 x 100 x 36	BPZ:QPA2002D	QPA2002D	685.13
0...100 % VOC							
0...2000 ppm CO ₂	0...50 -35...35			90 x 100 x 36	BPZ:QPA2060	QPA2060	588.19
0...2000 ppm CO ₂	0...50 -35...35		LCD	90 x 100 x 36	BPZ:QPA2060D	QPA2060D	661.55
CO ₂ : 0...2000 ppm	0...50 -35...35	0...95 % r.H.		90 x 100 x 36	BPZ:QPA2062	QPA2062	725.74
0...2000 ppm CO ₂	0...50 -35...35	0...95 % r.H.	LCD	90 x 100 x 36	BPZ:QPA2062D	QPA2062D	799.10

With the QPA2080 and QPA2080D the passive temperature element is freely selectable, enclosed in the delivery are LG-Ni1000, Pt1000, Pt100, NTC 10kOhm.

Indoor air quality controller with integrated VOC sensor for mixed gas

QPA84

In ventilation plant to optimize indoor air quality and consumption of energy by means of demand-controlled ventilation.



Data sheet	N1571
Operating voltage	AC 230 V
Power consumption	0.5 VA
Measured variable	Mixed gas (VOC)
Digital outputs	Non-floating
	Switching contact
Digital output, switching current	8 (6.8) A
Digital output, switching voltage	AC 230 V
Connection, electrical	Screw terminals
Degree of protection	IP30
Dimensions (W x H x D)	96 x 101 x 39 mm
Warranty	5 Years

	Stock no.	Product no.	Price (€)
	BPZ:QPA84	QPA84	163.75

Sensors

Air quality

Room sensor QPA..

2

QPA1..4



Room air quality sensor CO₂/ temperature (Basic)

Note: Not suited for safety-related applications!

Data sheet	A6V101099173
Operating voltage	AC 24 V
	DC 15...35 V
Analog output, signal	DC 0...10 V
	DC 4...20 mA
Degree of protection	IP30
Warranty	5 Years

Range overview QPA1..4

Measuring range [ppm]	Measuring range, temperature [°C]	Dimensions (WxHxD) [mm]	Stock no.	Product no.	Price (€)
0...2000		90 x 100 x 36	S55720-S453	QPA1004	366.80
0...2000	0...50	90 x 100 x 36	S55720-S454	QPA1064	451.95

Fine dust sensor, 0-10V & Modbus

QSA2700

Room sensor for detection of PM2.5 and PM10



Data sheet	A6V11160938
Operating voltage	AC/DC 24 V
Connection cable	Micro USB
Analog outputs	DC 0...10 V
Display	3-color LED service indication
Communication	Modbus RTU (RS-485)
Dimensions (W x H x D)	86 x 86 x 30 mm
Warranty	5 Years

	Stock no.	Product no.	Price (€)
	S55720-S457	QSA2700	471.60

Fine dust sensor +display, 0-10V, Modbus

QSA2700D

Room sensor with LCD display for detection of PM2.5 and PM10



Data sheet	A6V11160938
Operating voltage	AC 24 V
	DC 24 V
Connection cable	Micro USB
Analog outputs	DC 0...10 V
Display	LCD; 2.4 "
Communication	Modbus RTU (RS-485)
Dimensions (W x H x D)	86 x 86 x 30 mm
Warranty	5 Years

	Stock no.	Product no.	Price (€)
	S55720-S458	QSA2700D	537.10

QBM68..

Differential pressure sensor for air and non-aggressive gases

- Pressure-linear characteristic with selectable pressure measuring range
- Operating voltage AC 24 V or DC 15...35 V
- Output signal Modbus RTU and 0...10 V:
- Zero-point adjustment
- Simple and fast mounting
- Maintenance free
- Calibrated and temperature-compensated measuring signal

Data sheet	N1910.1
Power consumption	< 1 VA
Measurement accuracy	Total error: $\leq \pm 1\%$ FS TC zero point: $\leq \pm 0,1\%$ FS / °C TC sensitivity: $\leq \pm 0,06\%$ FS / °C
Pressure connection	Brass nipples Ø 5 mm
Connection cable	Cable gland entry M16
Medium temperature	0...70 °C
Degree of protection	IP65 enlgt IEC 60 529

Measuring range [Pa]	Measuring range, pressure [Pa]	Stock no.	Product no.	Price (€)
1x 0...1250	1x 0...1250	FI2:QBM68.1200	QBM68.1200	195.70
1x 0...1250	1x 0...1250	FI2:QBM68.1200D	QBM68.1200D	258.53
2x 0...1250	2x 0...1250	FI2:QBM68.1212	QBM68.1212	248.23
2x 0...1250	2x 0...1250	FI2:QBM68.1212D	QBM68.1212D	321.36
1x 0...2500	1x 0...2500	FI2:QBM68.2500	QBM68.2500	193.64
1x 0...2500	1x 0...2500	FI2:QBM68.2500D	QBM68.2500D	269.86
1x 0...2500	1x 0...2500	FI2:QBM68.2512	QBM68.2512	248.23
1x 0...1250	1x 0...1250			
1x 0...1250	1x 0...2500	FI2:QBM68.2512D	QBM68.2512D	321.36
	1x 0...1250			
2x 0...2500	2x 0...2500	FI2:QBM68.2525	QBM68.2525	231.75
1x 0...1250	2x 0...7000	FI2:QBM68.7070D	QBM68.7070D	361.53

QBM3460-3

Air duct differential pressure sensor, 0...300 Pa for VAV



For use with air or nonaggressive gases

Data sheet	N1925
Operating voltage	AC 24 V DC 13.5...33 V
Power consumption	0.24 VA
Analog output, signal	DC 0...10 V
Sensing element	Pressure diaphragm
Response time	<20 ms
Pressure connection	Connection branch, 6.2 mm dia.
Connection, electrical	Spring terminals
Measuring range, pressure	0...300 Pa
Degree of protection	IP54
Dimensions (W x H x D)	188 x 79 x 114 mm
Warranty	5 Years

Stock no.	Product no.	Price (€)
S55720-S118	QBM3460-3	465.05

Differential pressure sensor air and non-aggressive gas QBM..

Differential pressure sensor for air and non-aggressive gases

QBM69..

Pressure-linear characteristic with selectable pressure measuring range

Operating voltage AC 24 V or 13,5...35 V

Output signal Modbus RTU:

– Analog temperature sensors (2x) (accessory)

– LG-Ni1000, PT1000 or NTC10K

Zero-point adjustment

Maintenance free

Calibrated and temperature-compensated measuring signal

Data sheet

N1910.2

	Stock no.	Product no.	Price (€)
	FI2:QBM69.1212	QBM69.1212	237.93
	FI2:QBM69.2512	QBM69.2512	255.44
	FI2:QBM69.2525	QBM69.2525	243.08

Accessories for QBM..

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Mounting bracket for differential pressure sensor for air	N1590	BPZ:AQB2000	AQB2000	24.76
Top hat rail adapter for differential pressure sensor for air	N1590	BPZ:AQB21.2	AQB21.2	36.81
Air duct probe for differential pressure sensor, fixed length	N1589	BPZ:FK-PZ3	FK-PZ3	18.08
Air duct probe for simple, quick and airtight mounting	N1589	BPZ:FK-PZ1	FK-PZ1	26.20
Air duct probe for accurate measurements	N1589	BPZ:FK-PZ2	FK-PZ2	115.02

Accessories for QBM66..

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Mounting bracket for differential pressure sensor for air	N1590	BPZ:AQB2000	AQB2000	24.76
Top hat rail adapter for differential pressure sensor for air	N1590	BPZ:AQB21.2	AQB21.2	36.81

Sensors

Pressure

Differential pressure sensor air and non-aggressive gas QBM..

2

QBM2030..



Differential pressure sensor, DC 0...10 V

With pressure-linear characteristic.

For use with air or nonaggressive gases, for general HVAC applications. With diaphragm sensing element and selectable pressure measuring ranges.

Supplied complete with set of 2 air duct connectors and PVC tube of 2 m.

Data sheet	N1910_01
Operating voltage	AC 24 V
	DC 13.5...33 V
Power consumption	0.5 VA
Analog output, signal	DC 0...10 V
Time constant	1 s
Pressure connection	Connection branch, 6.2 mm dia.
Connection, electrical	Screw terminals
Degree of protection	IP42
Dimensions (W x H x D)	92 x 94 x 49 mm
Warranty	5 Years

Range overview QBM2030..

Measuring range, pressure [Pa]	Stock no.	Product no.	Price (€)
0...200	S55720-S245	QBM2030-5	226.63
0...250			
0...500			
-50...50	S55720-S244	QBM2030-1U	226.63
-100...100			
0...100			
0...1000	S55720-S246	QBM2030-30	226.63
0...1500			
0...3000			

Note on max. permissible pressure: overpressure on one side.

Differential pressure sensor air and non-aggressive gas QBM..

QBM3..



2

Air duct differential pressure sensor

For use with air or nonaggressive gases, for extremely demanding accuracy and high requirements. With diaphragm sensing element.

Available with switchable pressure-linear or extracting-the-root characteristic and digital display. With extracting-the-root characteristic, the pressure measuring range is adjustable.

CE-, UL listed.

Supplied complete with PVC connecting tube of 2 m.

Data sheet	N1916
Response time	<20 ms
Pressure connection	Connection branch, 6.2 mm dia.
Connection, electrical	Screw terminals
Degree of protection	IP54
Dimensions (W x H x D)	101 x 86 x 49 mm
Warranty	5 Years

Range overview QBM3..

Measuring range, pressure [Pa]	Analog output, signal	Operating voltage [V]	Display	Stock no.	Product no.	Price (€)
0...1000	DC 0...10 V	AC 24 V / DC 13,5...33		S55720-S237	QBM3020-10	327.50
0...100	DC 0...10 V	AC 24 V / DC 13,5...33		S55720-S234	QBM3020-1	327.50
0...100	DC 4...20 mA	DC 8...33		S55720-S443	QBM3120-1	327.50
0...1000	DC 4...20 mA	DC 8...33		S55720-S446	QBM3120-10	327.50
0...1000	DC 4...20 mA	DC 8...33	LCD	S55720-S451	QBM3120-10D	400.86
0...100	DC 4...20 mA	DC 8...33	LCD	S55720-S448	QBM3120-1D	400.86
-50...50	DC 4...20 mA	DC 8...33		S55720-S442	QBM3120-1U	379.90
0...2500	DC 4...20 mA	DC 8...33		S55720-S447	QBM3120-25	327.50
0...2500	DC 4...20 mA	DC 8...33	LCD	S55720-S452	QBM3120-25D	400.86
0...300	DC 4...20 mA	DC 8...33		S55720-S444	QBM3120-3	327.50
0...300	DC 4...20 mA	DC 8...33	LCD	S55720-S449	QBM3120-3D	400.86
0...500	DC 4...20 mA	DC 8...33		S55720-S445	QBM3120-5	327.50
0...500	DC 4...20 mA	DC 8...33	LCD	S55720-S450	QBM3120-5D	400.86
0...100	DC 0...10 V	AC 24 V / DC 13,5...33	LCD	S55720-S239	QBM3020-1D	400.86
-50...50	DC 0...10 V	AC 24 V / DC 13,5...33		S55720-S233	QBM3020-1U	379.90
0...300	DC 0...10 V	AC 24 V / DC 13,5...33		S55720-S235	QBM3020-3	327.50
0...300	DC 0...10 V	AC 24 V / DC 13,5...33	LCD	S55720-S240	QBM3020-3D	400.86
0...500	DC 0...10 V	AC 24 V / DC 13,5...33		S55720-S236	QBM3020-5	327.50
0...500	DC 0...10 V	AC 24 V / DC 13,5...33	LCD	S55720-S241	QBM3020-5D	400.86
0...1000	DC 0...10 V	AC 24 V / DC 13,5...33	LCD	S55720-S242	QBM3020-10D	400.86
0...2500	DC 0...10 V	AC 24 V / DC 13,5...33	LCD	S55720-S243	QBM3020-25D	400.86
0...2500	DC 0...10 V	AC 24 V / DC 13,5...33		S55720-S238	QBM3020-25	327.50

Sensors

Pressure

Differential pressure sensor air and non-aggressive gas QBM..

2

QBM3700..



Modus differential pressure sensor with I/O extension

Differential pressure sensor with I/O extension, designed for Modus (RTU) communication networks, 2 AI, 2 AO

Data sheet	A6V11684000
Operating voltage	AC/DC 24 V ±15 %
Power consumption	<2 VA
Analog output, signal	DC 0...10 V
Degree of protection	IP54 (Housing)
Dimensions (W x H x D)	146 x 81.9 x 60 mm
Communication	Modbus RTU (RS-485)
Warranty	5 Years

Range overview QBM3700..

Measuring range, pressure [Pa]	Stock no.	Product no.	Price (€)
0...2500	S55720-S486	QBM3700-25/MO	353.70

Differential pressure sensor air and non-aggressive gas QBM..

QBM400..



2

Air duct differential pressure sensor with calibration certificate

Technical data and accessories identical to QBM3...
With plug-in connection.

Data sheet	N1919_01
Mounting position	Membrane vertical, pressure connection nipples at the bottom
Degree of protection	IP54
Dimensions (W x H x D)	186 x 86 x 49 mm
Warranty	5 Years

Range overview QBM400..

Measuring range, pressure [Pa]	Stock no.	Product no.	Price (€)
0...100	S55720-S247	QBM4000-1	833.16

Note on max. permissible pressure: overpressure on one side.

Sensors

Pressure

Differential pressure sensor air and non-aggressive gas QBM..

2

QBM410..



Air duct differential pressure sensor, DC 4...20 mA, with calibration certificate

For use with air and nonaggressive gases. For extremely demanding accuracy and high requirements. With diaphragm sensing element.

CE-, UL listed.

Supplied complete with PVC connecting tube of 2 m.

Accessories for QBM41 are identical to those for QBM3...

Data sheet	N1919_01
Operating voltage	DC 8...33 V
Analog output, signal	DC 4...20 mA
Pressure connecton	Connecting branch, 6.2 mm dia.
Connection, electrical	Screw terminals
Mounting position	Membrane vertical, pressure connection nipples at the bottom
Degree of protection	IP54
Dimensions (W x H x D)	186 x 86 x 49 mm
Warranty	5 Years

Range overview QBM410..

Measuring range, pressure [Pa]	Display	Stock no.	Product no.	Price (€)
-50...50	no	S55720-S251	QBM4100-1U	969.40

Note on max. permissible pressure: overpressure on one side.

QBM97..

Modus air pressure sensor with I/O Extension, 1 or 2 sensors

Air pressure sensor with I/O extension, designed for Modus (RTU) communication networks

Data sheet	A6V11478118
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	Stock no.	Product no.	Price (€)
	S55730-S710-C109	QBM9710/109C	230.00
	S55730-S711-C109	QBM9711/109C	281.25

Differential pressure monitor

QBM81..

Used as a flow switch or filter monitor in air ducts.

Supplied complete with set of 2 air duct connectors (plastic)
and 2 m long PVC tube.



Data sheet	N1552
Digital outputs	1-pin Potential-free Switchover contact
Permissible operating pressure	7500 Pa
Ambient temperature, operation	-30...85 °C
Mounting position	Diaphragm vertical, pressure connection pointing downward
Digital output, switching voltage	DC 24 V / AC 24...250 V
Digital output, switching current	0.01...5 (3) A
Pressure connection	Connection branch, 6.2 mm dia.
Degree of protection	IP54
Dimensions (Ø x L)	81 x 90 mm
Warranty	5 Years

Range overview QBM81..

Measuring range, pressure [Pa]	Stock no.	Product no.	Price (€)
500...2000	S55720-S125	QBM81-20	84.50
1000...5000	S55720-S126	QBM81-50	84.50
100...1000	BPZ:QBM81-10	QBM81-10	84.50
20...300	BPZ:QBM81-3	QBM81-3	84.50
50...500	BPZ:QBM81-5	QBM81-5	84.50

Sensors

Pressure

Pressure sensors for liquids and gases QBE..

2

QBE3100UD100

Liquid Differential Pressure Sensor, 0-100 PSI

Liquid Differential Pressure Sensor, 0-100 PSI, 4-20mA output for hydronic HVAC piping application.



Measuring range	0 to 100 psi
Measurement accuracy	0.1% Full Scale
Warranty	5 Years

Stock no.	Product no.	Price (€)
S55720-S222	QBE3100UD100	732.00

QBE3100UD25

Liquid Differential Pressure Sensor, 0-25 PSI

Liquid Differential Pressure Sensor, 0-25 PSI, 4-20mA output for hydronic HVAC piping application.



Measuring range	0 to 25 psi
Measurement accuracy	0.1% Full Scale
Warranty	5 Years

Stock no.	Product no.	Price (€)
S55720-S220	QBE3100UD25	732.00

QBE3100UD50

Liquid Differential Pressure Sensor, 0-50 PSI

Liquid Differential Pressure Sensor, 0-50 PSI, 4-20mA output for hydronic HVAC piping application.



Measuring range	0 to 50 psi
Measurement accuracy	0.1% Full Scale
Warranty	5 Years

Stock no.	Product no.	Price (€)
S55720-S221	QBE3100UD50	732.00

Pressure sensors for liquids and gases QBE..

Differential pressure sensors for liquids and gas (0...10 V)**QBE3000..**

For slightly aggressive liquids and gases. With threaded connections G1/8".
Including mounting bracket and 2 screwed fittings for copper pipe, 6 mm dia.

Not suitable for use with ammonia or freones.

Data sheet	N1922
Operating voltage	AC 24 V DC 18...33 V
Analog output, signal	DC 0...10 V
Pressure connection	Internal thread G 1/8 "
Connection, electrical	Plug-in connection
Medium temperature	-15...80 °C
Degree of protection	IP65
Warranty	5 Years

**Range overview QBE3000..**

Measuring range, pressure	Max. permissible pressure [bar]	Stock no.	Product no.	Price (€)
0... 1 bar 0... 100 kPa	25	S55720-S173	QBE3000-D1	717.88
0... 1.6 bar 0... 160 kPa	25	S55720-S174	QBE3000-D1.6	717.88
0... 2.5 bar 0... 250 kPa	25	S55720-S175	QBE3000-D2.5	717.88
0... 6 bar 0... 600 kPa	25	S55720-S186	QBE3000-D6	717.88
0... 4 bar 0... 400 kPa	25	S55720-S176	QBE3000-D4	717.88
0... 10 bar 0... 1 MPa	50	S55720-S177	QBE3000-D10	717.88
0... 16 bar 0... 1.6 MPa	50	S55720-S178	QBE3000-D16	717.88

Note on max. permissible pressure: pressure on both sides.

Sensors

Pressure

Pressure sensors for liquids and gases QBE..

2

QBE3100..

Differential pressure sensors for liquids and gas (4...20 mA)



For slightly aggressive liquids and gases. With threaded connections G1/8".
Including mounting bracket and 2 screwed fittings for copper pipe, 6 mm dia.

Not suitable for use with ammonia or freones.

Data sheet	N1922
Operating voltage	DC 11...33 V
Analog output, signal	DC 4...20 mA
Pressure connection	Internal thread G 1/8"
Connection, electrical	Plug-in connection
Medium temperature	-15...80 °C
Degree of protection	IP65
Warranty	5 Years

Range overview QBE3100..

Measuring range, pressure	Max. permissible pressure [bar]	Stock no.	Product no.	Price (€)
0...1 bar 0...100 kPa	25	S55720-S179	QBE3100-D1	717.88
0...1.6 bar 0...160 kPa	25	S55720-S180	QBE3100-D1.6	717.88
0...16 bar 0...1.6 MPa	50	S55720-S184	QBE3100-D16	717.88
0...2.5 bar 0...250 kPa	25	S55720-S181	QBE3100-D2.5	717.88
0...4 bar 0...400 kPa	25	S55720-S182	QBE3100-D4	717.88
0...6 bar 0...600 kPa	25	S55720-S187	QBE3100-D6	717.88
0...10 bar 0...1 MPa	50	S55720-S183	QBE3100-D10	717.88

Note on max. permissible pressure: pressure on both sides.

QBE61.3-DP..



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Differential pressure sensor for liquids and gases

For slightly aggressive liquids and gases, highly resistant to overpressure. Suitable for use with hot water and chilled water.

With threaded connections G 1/2" and wall mounting bracket.

Not suitable for use with ammonia or freones.

For a smaller measuring range see QBE63-DP...

Note on max. permissible pressure: overpressure on one side.

Data sheet	N1923
Operating voltage	AC 24 V
	DC 18...33 V
Analog output, signal	DC 0...10 V
Pressure connection	External thread G 1/2 "
Connection, electrical	Screw-free terminals
Medium temperature	-15...80 °C
PN class	PN 40
Mounting position	Any
Degree of protection	IP54
Dimensions (W x H x D)	126 x 135 x 60 mm
Warranty	5 Years

Range overview QBE61.3-DP..

Measuring range, pressure [bar]	Max. permissible pressure [bar]	Stock no.	Product no.	Price (€)
0...2	12	BPZ:QBE61.3-DP2	QBE61.3-DP2	1135.77
0...10	20	BPZ:QBE61.3-DP10	QBE61.3-DP10	1135.77
0...5	20	BPZ:QBE61.3-DP5	QBE61.3-DP5	1135.77

Accessories for QBE63-DP.. and QBE3..

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Connection kit to mount QBE63../64.., QBE3..	N1922	S55720-S117	AQB2002	247.59

Accessories for QBE200..-P.. and QBE210..-P..

Product Title	Data sheet	Stock no.	Product no.	Price (€)
Mounting bracket for pressure sensor QBE2x03..	A6V10434028	S55720-S318	AQB2004	27.90
Connection kit to mount QBE2x03..	A6V10434028	S55720-S116	AQB2001	116.72

Sensors

Pressure

Pressure sensors for liquids and gases QBE..

2

QBE63-DP..



Differential pressure sensors for liquids and gas (DC 0...10 V)

For slightly aggressive liquids and gases, highly resistant to overpressure. With threaded connections G1/8"

Supplied complete with mounting bracket.

Not suitable for use with ammonia or freones.

Data sheet	N1920
Operating voltage	AC 24 V
	DC 20...30 V
Analog output, signal	DC 0...10 V
Pressure connection	Internal thread G 1/8 "
Connection, electrical	Screw terminals
Medium temperature	-10...80 °C
Mounting position	any
Degree of protection	IP65
Dimensions (Ø x L)	65 x 94 mm
Warranty	5 Years

Range overview QBE63-DP..

Measuring range, pressure [kPa]	Max. permissible pressure [bar]	Stock no.	Product no.	Price (€)
0...10	10	BPZ:QBE63-DP01	QBE63-DP01	837.09
0...20	10	BPZ:QBE63-DP02	QBE63-DP02	837.09
0...50	20	BPZ:QBE63-DP05	QBE63-DP05	837.09
0...100	20	BPZ:QBE63-DP1	QBE63-DP1	837.09

Note on max. permissible pressure: pressure on one side.

QBE2003-P..



Pressure sensor for neutral and slightly aggressive liquids and gases (0...10 V)

With threaded connection G1/2" and plug DIN EN 175301-803A.

Suited for use with oil-containing media.

Data sheet	A6V10432494
Operating voltage	AC 24 V
	DC 12...33 V
Analog output, signal	DC 0...10 V
Time constant	<2 ms
Pressure connection	External thread G1/2 "
Connection, electrical	Plug-in connection
Medium temperature	-15...125 °C
Max. permissible pressure	2.5 x scale end value (FS)
Mounting position	Any
Degree of protection	IP65
Dimensions (Ø x L)	24 x 101 mm
Warranty	5 Years

Range overview QBE2003-P..

Measuring range, pressure	Stock no.	Product no.	Price (€)
0...1 bar	S55720-S290	QBE2003-P1	340.60
0...100 kPa			
0...1.6 bar	S55720-S291	QBE2003-P1.6	340.60
0...160 kPa			
0...2.5 bar	S55720-S292	QBE2003-P2.5	340.60
0...250 kPa			

Pressure sensors for liquids and gases QBE..

Range overview QBE2003-P..

Measuring range, pressure	Stock no.	Product no.	Price (€)
0...4 bar 0...400 kPa	S55720-S293	QBE2003-P4	340.60
0...6 bar 0...600 kPa	S55720-S294	QBE2003-P6	340.60
0...10 bar 0...1 MPa	S55720-S295	QBE2003-P10	340.60
0...16 bar 0...1.6 MPa	S55720-S296	QBE2003-P16	340.60
0...25 bar 0...2.5 MPa	S55720-S297	QBE2003-P25	340.60
0...40 bar 0...4 MPa	S55720-S298	QBE2003-P40	340.60
0...60 bar 0...6 MPa	S55720-S299	QBE2003-P60	340.60

Sensors

Pressure

Pressure sensors for liquids and gases QBE..

2

QBE2103-P..



Pressure sensor for neutral and slightly aggressive liquids and gases (4...20 mA)

With threaded connection G1/2" and plug DIN EN 175301-803A.

Suited for use with oil-containing media.

Data sheet	A6V10432494
Operating voltage	DC 7...33 V
Analog output, signal	DC 4...20 mA
Time constant	<2 ms
Pressure connection	External thread G1/2"
Connection, electrical	Plug-in connection
Medium temperature	-15... 125 °C
Max. permissible pressure	2.5 x scale end value (FS)
Mounting position	Any
Degree of protection	IP65
Dimensions (Ø x L)	24 x 101 mm
Warranty	5 Years

Range overview QBE2103-P..

Measuring range, pressure	Stock no.	Product no.	Price (€)
0... 1 bar 0... 100 kPa	S55720-S300	QBE2103-P1	340.60
0... 1.6 bar 0... 160 kPa	S55720-S301	QBE2103-P1.6	340.60
0... 2.5 bar 0... 250 kPa	S55720-S302	QBE2103-P2.5	340.60
0... 400 kPa 0... 4 bar	S55720-S303	QBE2103-P4	340.60
0... 6 bar 0... 600 kPa	S55720-S304	QBE2103-P6	340.60
0... 10 bar 0... 1 MPa	S55720-S305	QBE2103-P10	340.60
0... 16 bar 0... 1.6 MPa	S55720-S306	QBE2103-P16	340.60
0... 25 bar 0... 2.5 MPa	S55720-S307	QBE2103-P25	340.60
0... 40 bar 0... 4 MPa	S55720-S308	QBE2103-P40	340.60
0... 60 bar 0... 6 MPa	S55720-S309	QBE2103-P60	340.60

Pressure sensor for refrigerants (0...10 V)

QBE2004-P..U

With internally threaded pressure connection UNF7/16-20.

For use with all media, including ammonia.

Data sheet	A6V10434676
Operating voltage	AC 24 V
	DC 16...33 V
Current consumption	<4 mA
Analog output, signal	DC 0...10 V
Time constant	<2 ms
Pressure connection	Internal thread UNF7/16-20
Connection cable	3-wire
Cable length	1.5 m
Connection, electrical	Cable
Medium temperature	-40...135 °C
Max. permissible pressure	3 x scale end value (FS)
Mounting position	Any
Degree of protection	IP67
Dimensions (Ø x L)	24 x 68 mm
Warranty	5 Years



Range overview QBE2004-P..

Measuring range, pressure	Stock no.	Product no.	Price (€)
-1...9 bar -100...900 kPa	S55720-S310	QBE2004-P10U	281.65
-1...24 bar -100...2400 kPa	S55720-S311	QBE2004-P25U	281.65
-1...29 bar -100...2900 kPa	S55720-S312	QBE2004-P30U	281.65
-1...59 bar -100...5900 kPa	S55720-S313	QBE2004-P60U	281.65

Sensors

Pressure

Pressure sensors refrigerant QBE..

2

QBE2104-P..U



Pressure sensors for refrigerants (4...20 mA)

With internally threaded pressure connection UNF7/16-20.

For use with all media, including ammonia.

Data sheet	A6V10434676
Operating voltage	DC 8...33 V
Analog output, signal	DC 4...20 mA
Time constant	<2 ms
Pressure connection	Internal thread UNF7/16-20
Connection cable	2-wire
Cable length	1.5 m
Connection, electrical	Cable
Medium temperature	-40...135 °C
Max. permissible pressure	3 x scale end value (FS)
Mounting position	Any
Degree of protection	IP67
Dimensions (Ø x L)	24 x 68 mm
Warranty	5 Years

Range overview QBE2104-P..

Measuring range, pressure	Stock no.	Product no.	Price (€)
-1...9 bar -100...900 kPa	S55720-S314	QBE2104-P10U	281.65
-1...24 bar -100...2400 kPa	S55720-S315	QBE2104-P25U	281.65
-1...29 bar -100...2900 kPa	S55720-S316	QBE2104-P30U	281.65
-1...59 bar -100...5900 kPa	S55720-S317	QBE2104-P60U	281.65

Airflow Pressure Sensor (250/1) DXA.S04P1**DXA.S04P1**

Airflow Pressure Sensor (250/1) DXA.S04P1



	Stock no.	Product no.	Price (€)
	S55376-C139	DXA.S04P1	380.00

QVE1900



Flow switch for use in hydraulic systems, PN10, DN32...200

For monitoring operation of systems using liquids or gases.

Data sheet	N1592
Digital output, switching voltage	250 VAC
Digital output, switching current	15 (8) A
Connection, electrical	Screw terminals
Nominal size, piping	DN32 - DN200
Connecting thread	R 1"
Digital outputs	1-pin
	Potential-free
	Changeover contact
Medium temperature	-20...120 °C
PN class	PN 10
Ambient temperature, operation	-20...85 °C
Material, valve body	Brass
Degree of protection	IP65
Dimensions (W x H x D)	108 x 70 x 132 mm
Warranty	5 Years

Stock no.	Product no.	Price (€)
BPZ:QVE1900	QVE1900	203.05

QVE1901



Flow switch for use in hydraulic systems, PN25, DN20...200

For monitoring operation of systems using liquids or gases.

Maximum switching capacity AC 26 VA, DC 20 W

Data sheet	N1594
Digital output, switching voltage	230 VAC, 48 VDC
Digital output, switching current	1 A
Connection, electrical	Screw terminals
Type of fixing	Thread G ½ "
Nominal size, piping	DN20 - DN200
Connecting thread	G ½ "
Digital outputs	Potential-free
Medium temperature	-20...110 °C
PN class	PN 25
Ambient temperature, operation	-20...80 °C
Material, valve body	Brass
Degree of protection	IP65
Dimensions (W x H x D)	120 x 38 x 92 mm
Warranty	5 Years

Stock no.	Product no.	Price (€)
BPZ:QVE1901	QVE1901	162.44

QVE1902.0..



2

Flow switch for liquids in piping DN 10...25

For monitoring the flow of liquid medium in HVAC plants

Maximum switching capacity AC 26 VA, DC 20 W

Data sheet	N1596
Digital output, switching voltage	AC 230 V, DC 48 V
Digital output, switching current	1 A
Type of fixing	Thread
Digital outputs	1-pin Potential-free reed contact
Medium temperature	-20...100 °C
Ambient temperature, operation	0...70 °C
Degree of protection	IP65
Warranty	5 Years

Range overview QVE1902.0..

Nominal size, piping	Connect. thread ["]	Qmax [l/min]	Stock no.	Product no.	Price (€)
DN 10	G $\frac{3}{8}$	20	S55720-S199	QVE1902.010	159.82
DN 15	G $\frac{1}{2}$	30	S55720-S200	QVE1902.015	159.82
DN 20	G $\frac{3}{4}$	80	S55720-S201	QVE1902.020	161.13
DN 25	G1	130	S55720-S202	QVE1902.025	165.06

QVM62.1



Duct sensor for air velocity

For measuring air velocities or volumetric flow in air ducts. Suited for primary plant (presetting the volumetric flow).

Sensor detached, ready wired, including pipe extension for different immersion lengths and mounting flange.

Data sheet	N1932
Operating voltage	AC 24 V
	DC 24 V
Power consumption	5 VA
Measuring range	0...10 m/s
	0...15 m/s
	0...5 m/s
Measurement accuracy	At 20 °C, 45 % r.h., 1013 hPa: ±0.65 m/s
Connection, electrical	Screw terminals
Cable length	1 m
Immersion length	30...300 mm
Analog output, signal	DC 4...20 mA
	DC 0...10 V
Degree of protection	IP42
Dimensions (W x H x D)	86 x 43 x 117 mm
Warranty	5 Years

	Stock no.	Product no.	Price (€)
	BPZ:QVM62.1	QVM62.1	378.59

Solar sensor

- For measuring the solar radiation intensity.

Data sheet	N1943
Operating voltage	AC 24 V DC 18...30 V
Power consumption	2.5 VA
Measuring range	0...1000 W/m ²
Time constant	2 s
Connection, electrical	Screw terminals
Analog output, signal	DC 0...10 V DC 4...20 mA
Degree of protection	IP65
Dimensions (W x H x D)	51 x 92 x 46 mm
Warranty	5 Years



QLS60

	Stock no.	Product no.	Price (€)
	BPZ:QLS60	QLS60	730.98