



WWW.CONTROLSDIRECT.COM.AU

Controls Direct

www.controlsdirect.com.au

SIEMENS

Contents

1 Thermostats

- Standalone room thermostats
- Communicating room thermostats
- Capillary and clamp-on thermostats

Type Overview

Product no.	Product Title	Data sheet	Page
##NA AU Products	Flush mount KNX room thermostat for 2-/4-pipe FCU with on/off output and 2x universal input, fit for both round and square conduit boxes	N3076	26
QAF81.3	Frost monitor, 2-point, capillary tube 3000 mm, -5...15 °C	N1284	41
QAF81.6M	Frost monitor, 2-point, with manual reset, capillary tube 6000 mm, -5...15 °C	N1284	41
RAB11	Electromechanical room thermostat for 2-pipe fan coils, selector heating/cooling	N3015	9
RAB21	Electromechanical room thermostat for 2-pipe fan coils, basic model	N3016	9
RAB31	Electromechanical room thermostat for 4-pipe fan coils, selector heating/cooling	N3017	10
RAB31.1	Electromechanical room thermostat for 4-pipe fan coils, selector heating/cooling/fan only	N3017	10
RAK-ST.010FP-M	Safety temperature limiter fixed 95 °C, pocket 100 mm, capillary 700 mm	N1204	36
RAK-ST.1385M	Safety limit thermostat, 40...70 °C, capillary length 700 mm	N1204	36
RAK-ST.1430S-M	Safety temperature limiter fixed 80...100 °C, pocket 100 mm, capillary 700 mm	N1204	36
RAK-TB.1400S-M	Temperature limiter, 45...60 °C, capillary 700 mm, clamping band	N1206	37
RAK-TB.1420S-M	Temperature limiter, 65...80 °C, capillary 700 mm, clamping band	N1206	37
RAK-TR.1000B-H	Temperature controller 15...95 °C, protection pocket 100 mm, capillary 700 mm, clamp on band	N1205	37
RAK-TR.1000S-H	Thermal reset limit thermostat, 15...95 °C, capillary tube 700 mm, clamping band	N1205	37
RAK-TW.1000HB	Thermal reset limit thermostat, 15...95 °C, protection pocket 100 mm, capillary length 700 mm	N1202	38
RAK-TW.1000S-H	Thermal reset limit thermostat, 15...95 °C, capillary tube 700 mm, clamping band	N1202	38
RAK-TW.1200B-H	Thermal reset limit thermostat, 40...120 °C, protective pocket 100 mm, capillary tube 700 mm, clamping band	N1202	38
RAK-TW.5000HS	Frost protection monitor, 5...65 °C, capillary length 1600 mm	N1203	42
RAK-TW.5010S-H	Frost protection monitor -10...50 °C, capillary tube 1600 mm, clamping band	N1203	42
RAZ-ST.011FP-J	Temperature controller/ safety temperature limiter, TR 15...95 °C/ STB 100 °C, dual protection pocket 100 mm, capillary tube each 700 mm	N1214	39
RAZ-ST.1500P-J	Temperature controller/ safety temperature limiter, TR 15...95 °C/ STB 110...130 °C, dual protection pocket 100 mm, capillary tube each 700 mm	N1214	39
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	39
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	40
RCC10	Room thermostat for 2-pipe fan coils, AC 230 V, positioning signal 2 pt, return air sensor	N3021	11
RCC20	Room thermostat for 2-pipe fan coils, AC 230 V, positioning signal 2 pt, return air sensor, el. heater	N3022	12
RCC30	Room thermostat for 4-pipe fan coils, AC 230 V, positioning signal 2pt, return air sensor	N3023	12
RCU50.2	Room thermostat for VAV and CAV systems, AC 24 V, positioning signal DC 0...10 V, manual changeover heating/cooling/off	N3045	22
RDF340	Flush mount room thermostat for 2-/4-pipe FCU with DC valves, 3-speed fan and 2x universal input, fit for square conduit boxes	N3076	18
RDF510/BP	Flush mount room thermostat for 2-pipe FCU with on/off output, fit for square conduit boxes in bulk pack of 20 units	A6V10889950	19
RDF530/BP	Flush mount room thermostat for 4-pipe FCU with on/off output, fit for square conduit boxes in bulk pack of 20 units	A6V10889950	19
RDF600T	Flush mount room thermostat for 2-/4-pipe FCU with on/off output, time programs and 2x universal input, fit for both round and square conduit boxes, infrared remote control, 7-day time switch, backlit LCD	N3076	20
RDF800	Flush mount touch room thermostat for 2-/4-pipe FCU with on/off output and 2x universal input, fit for both round and square conduit boxes	N3174	21
RDF800KN	Flush mount touch KNX room thermostat for 2-/4-pipe FCU with on/off output and 2x universal input, fit for both round and square conduit boxes	N3174	27
RDG100	Room thermostat, AC 230 V, for fan coil units and universal applications	N3181	13
RDG110	Room thermostat, AC 230 V, for fan coil units and heat pump applications	N3181	14
RDG110U	Room thermostat, AC 24 V, for fan coil units and heat pump applications		15

Product no.	Product Title	Data sheet	Page
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	25
RDG200KN	KNX communicating room thermostat. Outputs modulating (PWM / 3-pos.) or on/off. Fan coil (3-speed / DC fan), universal H/C applications, VAV fresh air	A6V11545853	29
RDG200KN/BK	KNX communicating room thermostat in black. Outputs modulating (PWM / 3-pos.) or on/off. Fan coil (3-speed / DC fan), universal H/C applications, VAV fresh air	A6V11545853	30
RDG200T	Room thermostats. Outputs modulating (PWM / 3-pos.) or on/off. Fan coil (3-speed / DC fan), universal applications	A6V13375643	16
RDG204KN	KNX communicating room thermostat with CO2 sensor. Outputs modulating (PWM / 3-pos.) or on/off. Fan coil (3-speed / DC fan), universal H/C applications, VAV fresh air	A6V11545853	31
RDG260KN	KNX communicating room thermostat. Outputs modulating (DC) or on/off. Fan coil (3-speed / DC fan), universal H/C applications, VAV fresh air	A6V11545853	32
RDG260KN/BK	KNX communicating room thermostat in black. Outputs modulating (DC) or on/off. Fan coil (3-speed / DC fan), universal H/C applications, VAV fresh air	A6V11545853	33
RDG260T	Room thermostat standalone. Outputs modulating (DC) or on/off. Fan coil (3-speed / DC fan) or universal applications	A6V13375643	17
RDG264KN	KNX communicating room thermostat with CO2 sensor. Outputs modulating (DC) or on/off. Fan coil (3-speed / DC fan), universal H/C applications, VAV fresh air	A6V11545853	34
RDG400	Room thermostat, AC 24 V, VAV heating and cooling systems	N3182	23
RDG405KN	Room thermostat for temperature and air quality control with KNX communications, AC 24 V, VAV heating and cooling systems	N3192	35
REV13	Room thermostat with 2-point control and 24-hour time switch, batteries, only heating	N2201	8
REV24	Room thermostat with 2-point control and 7-day time switch, batteries, heating or cooling	N2205	8

Thermostats

Standalone room thermostats	Heating and/or cooling	8
	Fan coils	9
	Variable air volumes (VAV)	22
Communicating room thermostats	Fan coils – KNX	24
	Variable air volumes (VAV) – KNX	35
Capillary and clamp-on thermostats	Temperature	36
	Frost protection units	41

Thermostats

Standalone room thermostats

Heating and/or cooling

REV..



Electronic room thermostat with time switch, LCD and selection slider

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, 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
Operating life of battery	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	Color	Stock no.	Product no.
Room thermostat with 2-point control and 24-hour time switch, batteries, only heating	130 x 94 x 30	N2201	White/Gray	BPZ:REV13	REV13
Room thermostat with 2-point control and 7-day time switch, batteries, heating or cooling	134.5 x 94 x 30	N2205	White/Gray	BPZ:REV24	REV24

Electromechanical room thermostats for fan coils

RAB..1..

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

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

RAB11

- 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.
S55770-T225	RAB11

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
Color	Light white



Stock no.	Product no.
S55770-T227	RAB21

Thermostats

Standalone room thermostats

Fan coils

RAB31



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

- 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
Color	Light white

Stock no.	Product no.
-----------	-------------

S55770-T229	RAB31
-------------	--------------

RAB31.1



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

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
Color	Light white

Stock no.	Product no.
-----------	-------------

S55770-T230	RAB31.1
-------------	----------------

Thermostats

Standalone room thermostats

Fan coils

RCC20


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

- 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
Color	White (NCS S 0502-G)

Stock no.	Product no.
BPZ:RCC20	RCC20

RCC30


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

- 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
Color	White (NCS S 0502-G)

Stock no.	Product no.
BPZ:RCC30	RCC30

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

RDG1..

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

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

RDG100



- 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
Color	White (RAL9003)

Stock no.

Product no.

S55770-T158

RDG100

Thermostats

Standalone room thermostats

Fan coils

RDG110



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

- 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
Color	White (RAL9003)

Stock no.	Product no.
S55770-T160	RDG110

Room thermostat, AC 24 V, for fan coil units and heat pump applications

RDG110U



- 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

Operating voltage	AC 24 V
Power consumption	2 VA 1 W
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	24 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
Warranty	24 Months

Stock no.

Product no.

S55770-T361

RDG110U

RDG2..

Room thermostats RDG2..

- Built-in temperature sensor
- 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
- Commissioning via Siemens smartphone application PCT Go
- Commissioning via local HMI
- Power reserve clock for 20 h during power failure
- Minimum and maximum setpoint limitation
- Backlit display

Data sheet	A6V13375643
Setpoint setting range	5...40 °C
Analog inputs, number	3
Digital inputs, number	3
Relay outputs	Fan 1- or 3-speed
Relay outputs, number	3
Type of fixing	Wall mounting with screws

RDG200T



Room thermostats. Outputs modulating (PWM / 3-pos.) or on/off. Fan coil (3-speed / DC fan), universal applications

- Built-in temperature sensor
- 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
- Selectable local scheduler, with 20h clock power reserve during power failure
- AC 230 V power supply

Application selectable:

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

Data sheet	A6V13375643
Operating voltage	AC 195.5...253 V 230 V
Color	White

Stock no.	Product no.
S55770-T457	RDG200T

Room thermostat standalone. Outputs modulating (DC) or on/off. Fan coil (3-speed / DC fan) or universal applications

RDG260T



- Built-in temperature sensor
- For applications with DC control outputs and DC or 3-speed fan output
- For applications with 2-position control output with DC fan output
- Selectable local scheduler, with 20h clock power reserve during power failure
- AC or DC 24 V operating voltage

Application selectable:

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

Data sheet	A6V13375643
Operating voltage	AC 19.2...28.8 V
	24 V
Color	DC 22...26 V/24 V
	White

Stock no.	Product no.
S55770-T458	RDG260T

Thermostats

Standalone room thermostats

Fan coils

RDF..Semi Flush Mount

Flush-mount room thermostat



Flush-mount room thermostat with LCD for 2-/4-pipe fan coil units and compressors in DX-type equipment

- For heating and/or cooling applications
- Outputs for 3-speed fan
- Selectable installation and control parameters

Setpoint setting range
Degree of protection

5...40 °C
IP30

Range overview RDF..Flush Mount

Product Title	Operating voltage [V]	Stock no.	Product no.
Flush mount room thermostat for 2-/4-pipe FCU with DC valves, 3-speed fan and 2x universal input, fit for square conduit boxes	AC 24	BPZ:RDF340	RDF340

Flush-mount room thermostats for square conduit boxes

RDF5..Flush Mount

Flush-mount thermostats

- Output for on/off valve actuator, 3-wire on/off valve
 - 3-speed fan control: Automatic or manual
 - Manual heating / cooling changeover or continuous Cooling only / Heating only
 - Operation modes: Comfort and Protection
 - Adjustable commissioning and control parameters
 - Optional display of room temperature or setpoint
 - Minimum and maximum setpoint limitation
 - Display temperature in increments of 0.5 °C or °F
 - Color of housing: signal white (RAL 9003)
 - LED backlit display
 - Full or partial keylock
 - Internal sensor calibration
 - Timer with delay off function: preset or user selection from 1 to 23 hours
 - Return to previous mode or Protection (Off) mode upon power down
 - Fan speed low or off in deadzone
 - Fan minimum On-time
 - Three standard color housings on bulk pack for project delivery
 - Customization is also available by request
-
- LED backlit display
 - Keylock function
 - Display either room temperature or setpoint
 - Comfort and Protection(Off) operating modes
 - Automatic or manual heating/cooling changeover
 - Automatic or manual 3-speed fan control
 - Selectable fan operation in deadzone
 - Timer with delay Off function: preset or user selection from 1 to 23 hours
 - Minimum and maximum setpoint limitation
 - Return to previous operating mode or Protection(Off) upon power down
 - Internal sensor calibration
 - Adjustable commissioning and control parameters
 - Fit into 86x86 conduit boxes
 - Housing available in different colors

Data sheet	A6V10889950
Operating voltage	AC 230 V
Power consumption	Max. 12 VA
Setpoint setting range	5...40 °C
Switching differential	0.5...6 K (factory setting: 1 K)
Dimensions (W x H x D)	86 x 86 x 39 mm

Range overview RDF5..Flush Mount

Product Title	Stock no.	Product no.
Flush mount room thermostat for 2-pipe FCU with on/off output, fit for square conduit boxes in bulk pack of 20 units	S55770-T383	RDF510/BP
Flush mount room thermostat for 4-pipe FCU with on/off output, fit for square conduit boxes in bulk pack of 20 units	S55770-T385	RDF530/BP

RDF6..Flush Mount


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

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	Color	Stock no.	Product no.
Flush mount room thermostat for 2-/4-pipe FCU with on/off output , time programs and 2x universal input, fit for both round and square conduit boxes, infrared remote control, 7-day time switch, backlit LCD	White	S55770-T292	RDF600T

Flush mount touch screen room thermostat for 2-/4-pipe FCU with on/off outputs, 2x universal input and electrical heater application, fit for both round and square conduit boxes

RDF8..Flush Mount



- 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
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.
Flush mount touch room thermostat for 2-/4-pipe FCU with on/off output and 2x universal input, fit for both round and square conduit boxes	AC/DC 230	S55770-T396	RDF800

Thermostats

Standalone room thermostats

Variable air volumes (VAV)

RCU..VAV

Electronic room thermostat for VAV and CAV systems

- Electronic room thermostat for heating and cooling operation
- P control
- 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

RCU50.2



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

- Manual heating / cooling changeover and OFF position
- Normal operation and OFF mode
- Signal inversion of output signal
- Fixed values for proportional band

Data sheet	N3045
Operating voltage	AC 24 V
Color	White (NCS S 0502-G)

Stock no.

Product no.

BPZ:RCU50.2

RCU50.2

RDG400



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

- 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
Design	Room sensor
Type of fixing	Wall mounting with screws
Degree of protection	IP30
Dimensions (W x H x D)	93 x 128 x 30.8 mm
Color	White (RAL9003)
Warranty	24 Months

Stock no.	Product no.
S55770-T164	RDG400

RDG1..KN

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

- 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

Switching differential

Heating: 0.5...6 K

Cooling: 0.5...6 K

Communication

Bus: KNX (S-Mode und LTE-Mode mit Synco 700)

Relay output, switching current

5 (4) A

Dimensions (W x H x D)

93 x 128 x 30.8 mm

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
Analog inputs, number	2
Analog outputs, number	3
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
Type of fixing	Wall mounting with screws
Degree of protection	IP30

Stock no.	Product no.
S55770-T347	RDG165KN

RDF6..KNX Flush Mount

Flush mount KNX room thermostat for 2-/4-pipe FCU with on/off outputs, 2x universal input and electrical heater application, fit for both round and square conduit boxes



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) or black
- 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.
Flush mount KNX room thermostat for 2-/4-pipe FCU with on/off output and 2x universal input, fit for both round and square conduit boxes	AC 230	S55770-T293	##NA AU Products

Flush mount touch screen KNX room thermostat for 2-/4-pipe FCU with on/off outputs, 2x universal input and electrical heater application, fit for both round and square conduit boxes

RDF8..KNX Flush Mount



- 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 or black
- 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.
Flush mount touch KNX room thermostat for 2-/4-pipe FCU with on/off output and 2x universal input, fit for both round and square conduit boxes	AC 230	S55770-T350	RDF800KN

RDG2..KN

Room thermostats RDG2.. with KNX communications

- For fan coil , universal heat/cool and ventilation (VAV fresh air) applications
- KNX communications: S-mode, PL-Link with PXC4/5/7, LTE-mode with Synco
- 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
- Local weekly time program (with 3 Comfort periods per day)
- Manager /Subordinate (M/S) function
- Delta temperature control for district heating and cooling
- Commissioning via Smartphone APP "PCT Go", local HMI or KNX tools.

Data sheet	A6V11545853
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 output, signal	DC 0...10 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

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

RDG200KN



- Built-in temperature and humidity sensors
- 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 230 V or AC 24 V power supply.

Application selectable:

- 2-pipe system
- 2-pipe system with electrical heater
- 2-pipe system and radiator / floor heating
- 2-pipe / 2-stage heating or cooling systems
- 4-pipe system
- 4-pipe system with electrical heater
- 4-pipe / 2-stage heating and cooling system (selectable also for 2-stage cooling / 1-stage heating or 2-stage heating / 1-stage cooling)

Data sheet	A6V11545853
Operating voltage	AC 24 V AC 230 V
Analog inputs, number	3
Analog outputs	Fan, fresh air damper (DC 0...10V)
Analog outputs, number	2
Digital inputs, number	3
Relay outputs	Fan: 1- or 3-speed
Relay output, switching voltage	AC 24 V or 230 V
Triac outputs	Valve, el. heater 2-position, PWM, 3-position
Triac outputs, number	4
Triac output, switching voltage	AC 24...230 V
Triac output, switching current	1 A

Stock no.

Product no.

S55770-T409

RDG200KN

Thermostats

Communicating room thermostats

Fan coils – KNX

RDG200KN/BK



KNX communicating room thermostat in black. Outputs modulating (PWM / 3-pos.) or on/off. Fan coil (3-speed / DC fan), universal H/C applications, VAV fresh air

- Built-in temperature and humidity sensors
- Black color device RAL9011
- 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 230 V or AC 24 V power supply.

Application selectable:

- 2-pipe system
- 2-pipe system with electrical heater
- 2-pipe system and radiator / floor heating
- 2-pipe / 2-stage heating or cooling systems
- 4-pipe system
- 4-pipe system with electrical heater
- 4-pipe / 2-stage heating and cooling system (selectable also for 2-stage cooling / 1-stage heating or 2-stage heating / 1-stage cooling)

Data sheet	A6V11545853
Operating voltage	AC 24 V AC 230 V
Analog inputs, number	3
Analog outputs	Fan, fresh air damper (DC 0...10V)
Analog outputs, number	2
Digital inputs, number	3
Relay outputs	Fan: 1- or 3-speed
Relay output, switching voltage	AC 24 V or 230 V
Triac outputs	Valve, el. heater 2-position, PWM, 3-position
Triac outputs, number	4
Triac output, switching voltage	AC 24...230 V
Triac output, switching current	1 A

Stock no. Product no.

S55770-T452

RDG200KN/BK

RDG204KN



KNX communicating room thermostat with CO2 sensor. Outputs modulating (PWM / 3-pos.) or on/off. Fan coil (3-speed / DC fan), universal H/C applications, VAV fresh air

- Built-in temperature, humidity and CO2 sensors
- Indoor air quality monitoring and controlling (CO2) via fresh air damper
- Display of CO2 value in ppm (parts per million) or with text
- 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 230 V or AC 24 V power supply.

Application selectable:

- 2-pipe system
- 2-pipe system with electrical heater
- 2-pipe system and radiator / floor heating
- 2-pipe / 2-stage heating or cooling
- 4-pipe system
- 4-pipe system with electrical heater
- 4-pipe / 2-stage heating and cooling system (selectable also for 2-stage cooling / 1-stage heating or 2-stage heating / 1-stage cooling)

Data sheet	A6V11545853
Operating voltage	AC 24 V AC 230 V
Analog inputs, number	3
Analog outputs	Fan, fresh air damper: (DC 0...10 V)
Analog outputs, number	2
Digital inputs, number	3
Relay outputs	Fan: 1- or 3-speed
Relay output, switching voltage	AC 24 V or 230 V
Triac outputs	Valve, el. heater, fresh air damper 2-position, PWM, 3-position
Triac outputs, number	4
Triac output, switching voltage	AC 24...230 V
Triac output, switching current	1 A

Stock no.

Product no.

S55770-T410

RDG204KN

RDG260KN


KNX communicating room thermostat. Outputs modulating (DC) or on/off. Fan coil (3-speed / DC fan), universal H/C applications, VAV fresh air

- Built-in temperature and humidity sensors
- 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 24 V operating voltage

Application selectable:

- 2-pipe system
- 2-pipe system with electrical heater
- 2-pipe system and radiator / floor heating
- 2-pipe / 2-stage heating or cooling system
- 4-pipe system
- 4-pipe system with electrical heater
- 4-pipe / 2-stage heating and cooling system (selectable also for 2-stage cooling / 1-stage heating or 2-stage heating / 1-stage cooling)
- 4-pipe system with 6-port ball valves and PICV
- Heating / cooling with 6-port ball valves

Data sheet	A6V11545853
Operating voltage	AC/DC 24 V
Analog inputs, number	3
Analog outputs	Valve, el. heater: 4 fan: 1 fresh air damper: 1 (DC 0...10V)
Analog outputs, number	5
Digital inputs, number	3
Relay outputs	Valve, compressor or el. heater: 2 outputs, 2-position Fan: 1- or 3-speed
Relay output, switching voltage	AC 24...230 V

Stock no.	Product no.
S55770-T412	RDG260KN

RDG260KN/BK



KNX communicating room thermostat in black. Outputs modulating (DC) or on/off. Fan coil (3-speed / DC fan), universal H/C applications, VAV fresh air

- Built-in temperature and humidity sensors
- Black color device RAL9011
- 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 24 V operating voltage

Application selectable:

- 2-pipe system
- 2-pipe system with electrical heater
- 2-pipe system and radiator / floor heating
- 2-pipe / 2-stage heating or cooling system
- 4-pipe system
- 4-pipe system with electrical heater
- 4-pipe / 2-stage heating and cooling system (selectable also for 2-stage cooling / 1-stage heating or 2-stage heating / 1-stage cooling)
- Heating / cooling with 6-port ball valves

Data sheet	A6V11545853
Operating voltage	AC 24 V 24 V DC 24 V
Analog inputs, number	3
Analog outputs	Valve, el. heater: 4 fan: 1 fresh air damper: 1 (DC 0...10V)
Analog outputs, number	5
Digital inputs, number	3
Relay outputs	Valve, compressor or el. heater: 2 outputs, 2-position Fan: 1- or 3-speed
Relay output, switching voltage	AC 24...230 V

Stock no.

Product no.

S55770-T453

RDG260KN/BK

RDG264KN



KNX communicating room thermostat with CO2 sensor. Outputs modulating (DC) or on/off. Fan coil (3-speed / DC fan), universal H/C applications, VAV fresh air

- Built-in temperature, humidity and CO2 sensors
- Indoor air quality monitoring and controlling (CO2) via fresh air damper
- Display of CO2 value in ppm (parts per million) or with text
- 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 24 V operating voltage

Application selectable:

- 2-pipe system
- 2-pipe system with electrical heater
- 2-pipe system and radiator / floor heating
- 2-pipe / 2-stage heating or cooling system
- 4-pipe system
- 4-pipe system with electrical heater
- 4-pipe / 2-stage heating and cooling system (selectable also for 2-stage cooling / 1-stage heating or 2-stage heating / 1-stage cooling)
- Heating / cooling with 6-port ball valves

Data sheet	A6V11545853
Operating voltage	AC 24 V 24 V DC 24 V
Analog inputs, number	3
Analog outputs	Valve, el. heater: 4 fan: 1 fresh air damper: 1 (DC 0...10V)
Analog outputs, number	5
Digital inputs, number	3
Relay outputs	Valve, compressor or el. heater: 2 outputs, 2-position Fan: 1- or 3-speed
Relay output, switching voltage	AC 24...230 V

Stock no. Product no.

S55770-T413

RDG264KN

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

RDG405KN



- 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	24 V
Triac output, switching current	1 A
Design	Room sensor
Type of fixing	Wall mounting with screws
Degree of protection	IP30
Dimensions (W x H x D)	93 x 128 x 30.8 mm
Color	White (RAL9003)
Warranty	24 Months

Stock no.

Product no.

S55770-T348

RDG405KN

Thermostats

Capillary and clamp-on thermostats

Temperature

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 outputs	1-pin Potential-free
Degree of protection	Switchover contact IP43
Dimensions (W x H x D)	55 x 156 x 67 mm

Range overview RAK-ST..M

Operating voltage [V]	Switch-off point [°C]	Protection pocket	Capillary length [mm]	Stock no.	Product no.
AC 24	95	100 mm; G 1/2"; LW7; PN10	700	S55700-P100	RAK-ST.010FP-M
AC 24	80...100		1600	S55700-P106	RAK-ST.1430S-M

Note to protection pocket: Brass, nickel-plated.

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 outputs	1-pole Potential-free
Degree of protection	Changeover contact IP65
Dimensions (W x H x D)	55 x 156 x 67 mm

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

Operating voltage [V]	Switch-off point [°C]	Capillary length [mm]	Stock no.	Product no.
AC 24	40...70	700	S55700-P105	RAK-ST.1385M

Note to protection pocket: Brass, nickel-plated.

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 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]	Capillary length [mm]	Stock no.	Product no.
45...60	700	S55700-P108	RAK-TB.1400S-M
65...80	700	S55700-P110	RAK-TB.1420S-M

Note to protection pocket: Brass, nickel-plated.

Temperature controller

RAK-TR.1..H

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

Data sheet	N1205
Switching differential	6 K
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

Operating voltage [V]	Setpoint setting range [°C]	Protection pocket	Capillary length [mm]	Stock no.	Product no.
AC 24	15...95	100 mm; G 1/2"; LW7; PN10	700	S55700-P111	RAK-TR.1000B-H
AC 24	15...95		700	S55700-P112	RAK-TR.1000S-H

Note to protection pocket: Brass, nickel-plated.

Thermostats

Capillary and clamp-on thermostats

Temperature

RAK-TW.1..H



Thermal reset limit thermostat

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.
15...95		700	S55700-P116	RAK-TW.1000S-H
40...120	PN 10, 100 mm, G ½"	700	S55700-P117	RAK-TW.1200B-H

Note to protection pocket: Brass, nickel-plated.

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	Capillary length [mm]	Stock no.	Product no.
15...95	100 mm; G ½"; LW7; PN10	700	S55700-P115	RAK-TW.1000HB

Note to protection pocket: Brass, nickel-plated.

Temperature controller/ safety limit thermostat

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 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.
15...100 15...95 100	100	PN 10, 100 mm, G ½"	S55700-P136	RAZ-ST.011FP-J
TR: 15...95 STB: 110...130	110...130	PN 10, 100 mm, G ½"	RAZ-ST.1500P-J	RAZ-ST.1500P-J
15...110 15...95 90...110	90...110	PN 10, 100 mm, G ½"	S55700-P139	RAZ-ST.1510P-J

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 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.
TR: 15...95 TW: 15...95	PN 10, 100 mm, G ½" 2x	700	S55700-P140	RAZ-TW.1000P-J

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

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.
3000	BPZ:QAF81.3	QAF81.3
6000	BPZ:QAF81.6M	QAF81.6M

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.
-10...50	1600	S55700-P122	RAK-TW.5010S-H

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.
5...65	1600	S55700-P120	RAK-TW.5000HS