SIEMENS

Room thermostats

RDG200T.., RDG260T..



For fan coil units, universal applications and compressors in DX-type equipment applications

- Built-in temperature sensor
- Control room temperature level
- RDG20..T triac control outputs for On/Off, PWM or 3-position
- RDG26..T control outputs for DC 0...10 V or On/Off
- Fan outputs for 3-speed, 1-speed or DC 0...10 V
- 3 multifunctional inputs X1, X2 and X3 for keycard, external sensor, etc.
- Operating modes: Comfort, Economy and Protection
- Automatic or manual fan speed control
- Automatic or manual heating/cooling changeover
- Commissioning via local HMI
- Commissioning via Siemens smartphone application PCT Go
- Power reserve clock for 20 h during power failure
- Operating voltage:
 - RDG20..T: AC 230 V
 - RDG26..T: AC 24 V or DC 24 V



Functions

Control application

The RDG2..T room thermostats are designed for use with the following:

Fan coil units via On/Off or modulating/DC control outputs:

- 2-pipe system
- 2-pipe system with electric heater
- 2-pipe system with radiator/floor heating
- 2-pipe/2-stage system also suitable for applications with 1-stage heating/ 2-stage cooling, or 2-stage heating/1-stage cooling
- 4-pipe system
- 4-pipe system with electric heater
- 4-pipe system with a 6-port ball valve (RDG26..T)
- 4-pipe system with 6-port PICV (RDG26..T)
- 4-pipe system with PICV and 6-port ball valve as changeover (RDG26..T)

Chilled/heated ceilings (or radiators) via On/Off or modulating/DC control outputs:

- Chilled/heated ceiling
- Chilled/heated ceiling with electric heater
- Chilled/heated ceiling and radiator/floor heating
- Chilled ceiling and radiator/floor heating
- Chilled and/or heated ceiling/2-stage
- Chilled/heated ceiling (4-pipe) with 6-port ball valve (RDG26..T)
- Chilled/heated ceiling (4-pipe) with 6-port PICV (RDG26..T)
- Chilled/heated ceiling with PICV and 6-port ball valve as changeover (RDG26..T)

Compressor applications via On/Off control:

- Heating or cooling, compressor in DX-type equipment
- Heating or cooling, compressor in DX-type equipment with electric heater
- Heating and cooling, compressor in DX-type equipment
- Heating or cooling/2-stage, compressor in DX-type equipment

General functions

- Weekly scheduler
- Room temperature control via built-in temperature sensor or external room temperature/return air temperature sensor
- Floor heating temperature limitation
- Min. and max. supply air temperature limitation
- Selection of operating modes via operating mode button
- Button lock for all buttons independently (automatically or manually)
- Changeover between heating and cooling mode (automatic via local sensor or manually)
- Parameters protected by password (disabled by default)
- Purge function together with 2-port valve
- Valve kick/exercising function to prevent gripping
- Reminder to clean fan filters
- Delta temperature control Limiting temperature difference between flow and return temperature for water to optimize the system and reduce energy consumption in district heating systems
- Power reserve clock for 20 h during power failure

Setpoints and display

- Min. and max. limitation of room temperature setpoint:
 - Comfort limitation (min. and max. limitation)
 - Energy saving concept (min. and max. limitation separate for heating and cooling)
- Temporary Comfort mode extension
- Display of current room temperature or setpoint in °C, °F or both

Setting

- Application selection via DIP switches or external commissioning software (Siemens smartphone application PCT Go)
- Parameter download with external commissioning software (Siemens smartphone application PCT Go)
- Reloading factory settings for commissioning and control parameters

Fan

- 1-speed, 3-speed or DC 0...10 V fan control on RDG20..T and RDG26..T (automatic or manual fan)
- Advanced fan control function, e.g. fan kick, fan start delay, selectable fan operation (enable, disable, depending on heating/cooling mode, or min. and max. speed setting)
- Fan start depending on fan coil temperature (heating) to avoid cool air while heating
- Enabling fan output only in the 2nd stage (2-pipe/2-stage)
- Switching fan speed from manual to automatic in the dead zone to avoid energy waste (selectable function)

Special functions

- Swap function for 2-pipe and 2-stage application by switching the 1st stage heating to 2nd stage cooling
- In 2-stage applications, limit the number of heating or cooling sequence to one
- Control of 6-port ball valve and for 6-port PICV, DC 0...10 V, DC 2...10 V and inverted signals DC 10...0 V, DC 10...2 V (RDG26..T)
- Control of 6-port ball valve as changeover (On/Off open/close signal) and PICV DC 0...10 V
- Flow limitation function for PICV in heating and cooling mode (RDG26..T)
- Set holiday period to reduce energy consumption during absences (holidays)
- For 6-port PICV (RDG26..T)
 - During commissioning, maximal water flow selection in I/h for heating (P260) and for cooling (P261) independently via PCT Go
 - During operation, water flow (I/h) reading via PCT Go live data function
- Selectable relay functions
 - Switching off external equipment during Protection mode
 - Switching on external equipment (e.g. pump) during heating/cooling demand
 - Output status heating/cooling sequence

Inputs

- 3 multifunctional inputs X1, X2 and X3, selectable for:
 - Window contact switches operating mode to Protection
 - Presence detector switches operating mode to Comfort
 - Sensor for automatic heating/cooling changeover
 - Switch for manual heating/cooling changeover
 - External room temperature or return air temperature sensor
 - Dewpoint sensor
 - Enable electric heater
 - Fault input

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- Supply air temperature sensor
- Coil temperature sensor
- External temperature limit
- Hotel presence detector

Applications

The RDG2..T room thermostats support the following applications, which can be configured using the DIP switches on the rear of the unit or via the commissioning tool.

Remote configuration

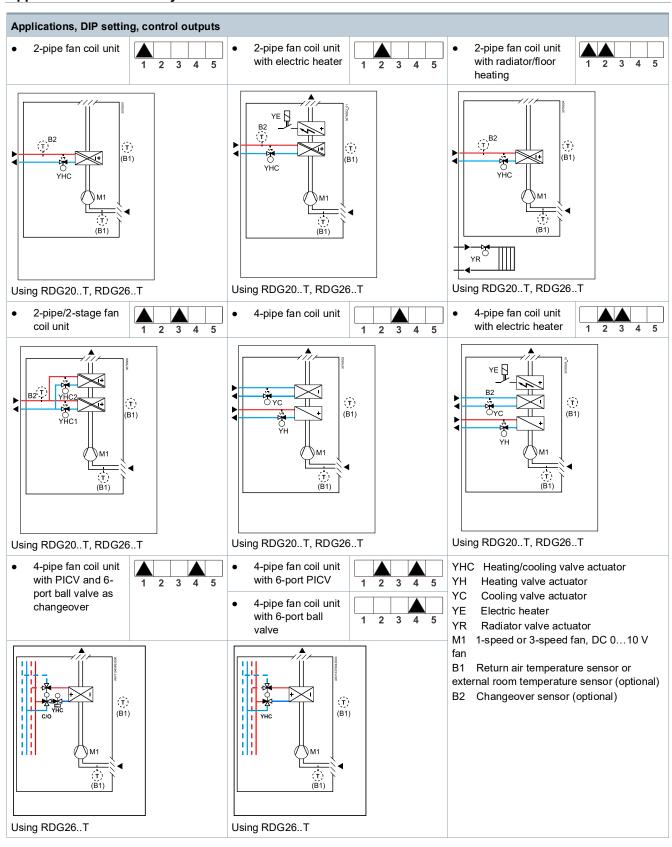
Set DIP switches 1...5 to Off (remote configuration, factory setting) to select an application via commissioning tool.

Remote configuration via commissioning tool (factory setting)

• Commissioning via Siemens smartphone application PCT Go

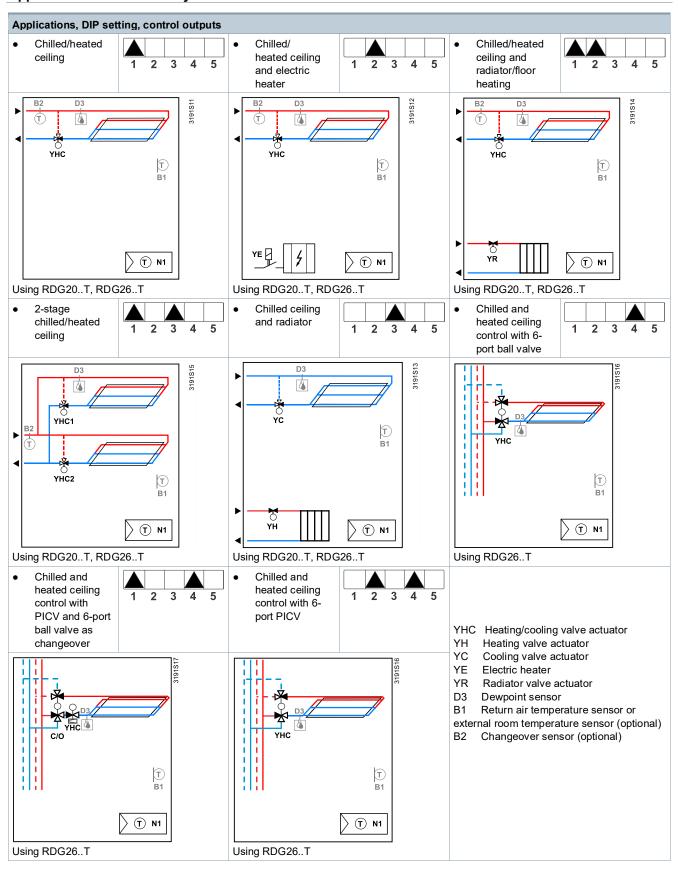
ON = DIP NO.: 1...5

OFF = DIP NO.: 1...5



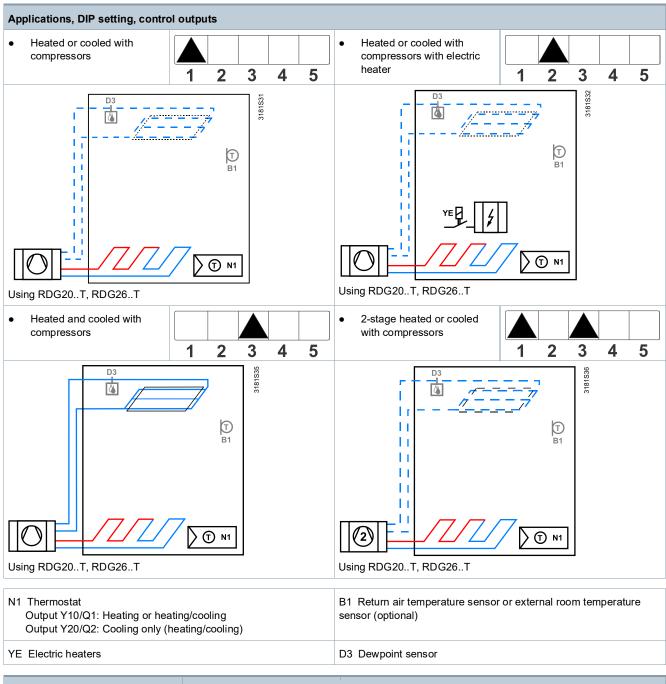
Product No.	Control output	Fan output
RDG20T	PWM, On/Off, 3-pos	3-speed, 1-speed, DC 010 V
RDG26T	DC 010 V	3-speed, 1-speed, DC 010 V
	On/Off	DC 010 V

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Product No.	Control outputs
RDG20T	On/Off, PWM, 3-position
RDG26T	On/Off, DC 010 V

Application for heat pump systems



Product No.	Control output	Fan
RDG20T	On/Off	Disabled, 1-speed, 3-speed, DC 010 V
RDG26T	On/Off	Disabled, DC 010 V

For fan coil units, universal applications and compressors in DX-type equipment applications

Product no. Stock no. Operating	Fan		Number of control outputs						
		voltage	3-speed	DC	On/Off	PWM	3-pos	DC	On/Off (3-wire)
RDG200T	S55770- T457	AC 230 V	1	√ 1)	3	3	2	_	2
RDG260T	S55770- T458	AC 24 V or DC 24 V	1	√ 1)	_	_	_	3	_
	1430	DC 24 V	_	√ 1)	2 ²⁾	_	_	_	_

¹⁾ The terminal Y50 is used as DC 0...10 V output.

Accessories

Туре	Product/stock no.	Datasheet
Mounting adapter for RDG2T 1)	ARG200: S55770-T438	-

¹⁾ ARG200 mounting adapter is used to wall-mount the RDG2..T where a conduit box is not available. For easier wiring, removable knockouts on all sides are available. For dimensions, see Dimensions [▶ 28].

Ordering

When ordering, specify both product number / stock number and name: e.g. **RDG200T** / **S55770-T457 room thermostat**

Order valve actuators and accessories separately.

Equipment combinations

Type of unit		Product no.	Datasheet *)
Cable temperature or changeover sensor, cable length 2.5 m NTC (3 k Ω at 25 °C)	O,	QAH11.1	1840
Cable temperature sensor PVC 2 m, LG-Ni1000		QAP22	1831
Room temperature sensor NTC (3 k Ω at 25 °C)		QAA32	1747
Room temperature sensor LG-Ni1000		QAA24	1721
Front modules with passive temperature measurement LG-Ni1000		AQR2531ANW	1408
Strap-on temperature sensor LG-Ni1000		QAD22	1801
Condensation monitor		QXA21	A6V10741072

²⁾ The output is relay On/Off.

On/Off and PWM actuators 1)

Type of unit	Product no.	Datasheet *)
Thermal actuator (for radiator valves) AC 230 V, NC	Under	development
Thermal actuator (for radiator valves) AC 24 V, NC		
Thermal actuator AC 230 V (for small valves 2.5 mm), NO		
Thermal actuator AC 24 V (for small valves 2.5 mm), NO		

3-positon actuators AC 230 V

Type of unit	Product no.	Datasheet *)	
Electric actuator, 3-position (for radiator valves) AC 230 V	22	SSA331	A6V1185827
Electric actuator, 3-position (for 2- and 3-port valves/VP45) AC 230 V		SSC31	4895
Electric actuator, 3-position (for small valves 2.5 mm) AC 230 V	3	SSP31	4864
Electric actuator, 3-position (for small valves 5.5 mm) AC 230 V	22	SSB31	4891
Electric actuator, 3-position (for small valve 5 mm) AC 230 V	3	SSD31	4861
Electric actuator, 3-position (for valves 5.5 mm) AC 230 V		SAS31	4581
Rotary actuators for ball valves, 3-position		GDB331.9E	4657
Rotary actuators for ball valves, 2 or 3-position		GDB141.9E GDB341.9E	A6V10636150

On/Off actuators

Type of unit	Product no.	Datasheet *)	
Electromotive On/Off actuator	211)	SFA21 SFA71	4863
Electromotive On/Off valve and actuator (only available in AP, UAE, SA and IN)		MVI/MXI	A6V11251892
Zone valve actuator (only available in AP, UAE, SA and IN)	-	SUA	A6V10446174

DC 0...10 V actuators

Type of unit	Product no.	Datasheet *)	
Electric actuator, DC 010 V (for radiator valves)	5	SSA161	A6V11858278
Electric actuator, DC 010 V (for 2- and 3-port valves/VP45)		SSC161	A6V12681511

Type of unit	Product no.	Datasheet *)		
Electric actuator, DC 010 V (for small valves 2.5 mm)		SSF161	A6V12681511	
Electric actuator, DC 010 V (for small valves 5.5 mm)	5	SSB161	A6V12681511	
Electromotive actuator, DC 010 V (for valves 5.5 mm)		SAS61	4581	
Electrothermal actuator, AC 24 V, NC, DC 0	.10 V, 1 m	Under development		
Electrothermal actuator, AC 24 V, NO, DC 0	.10 V, 1 m	· · · · · · · · · · · · · · · · · ·		
Rotary actuators for ball valves AC 24 V, DC 010 V		GDB161.9E	4567	

DC 0...10 V actuators 6-port / PICV (RDG26..T)

Type of unit	Product no.	Datasheet *)
Rotary actuators for 6-port ball valves control: • 6-port ball valve VWG41 • 6-port PICV VWPG51 For details, see Recommended RDG actuators and 6-port valves combinations [▶ 11]	GDB161.9/6W	A6V12986395

Note: If RDG26.. needs to control GDB161.9E, the control signal needs to be set accordingly, see Control output configuration for 6-port valve in Basic documentation.

DC 0...10 V damper actuators

Type of unit		Product no.	Datasheet *)
Air damper actuators DC 010 V, AC/DC 24 V	I to	GQD166.1A GQD161.1A	4604
Air damper actuators DC 010 V, AC 24 V		GDB161	4634
	Q	GLB161	
Air damper actuators DC 010 V, AC/DC 24 V		GMA161	4614
Air damper actuators DC 010 V, AC 24 V		GEB161	4621
Air damper actuators DC 010 V, AC/DC 24 V		GCA161	4613
Air damper actuators DC 010 V, AC 24 V		GBB161	4626
	111	GIB161	

On/Off damper actuators AC 230 V

Type of unit		Product no.	Datasheet *)
Air damper actuators 2-position, AC 230 V	Total	GQD321	4604
		GMA321	4614
		GCA321	4613

On/Off damper actuators AC 24 V

Type of unit		Product no.	Datasheet *)
Air damper actuators 2-position, AC/DC 24 V	The state of the s	GQD121	4604
	6	GMA121	4614
		GCA121	4613

^{*)} The documents can be downloaded from https://hit.sbt.siemens.com

Note:

For more information about parallel operation and the max. number of actuators that can be used, refer to the data sheets of the selected actuator type and the following list:

Max. number of actuators in parallel on RDG20..T (AC 230 V):

- 6 SS..31.. actuators (3-position)
- 10 SFA.., SUA.., MVI.., MXI.. On/Off actuators
- Parallel operation of SAS31 not available

Max. number of actuators in parallel on RDG26..T (AC 24 V):

- 10 SS..61.. actuators (DC)
- 10 SFA.., SUA.., MVI.., MXI.. On/Off actuators
- 10 SAS61.. actuators (DC)
- 10 GDB161.9../6W

Recommended RDG actuators and 6-port valves combinations

To guarantee the optimal temperature control performance, it is requested to use the following RDG260..T versions (see below) for controlling GDB161.9../6W actuators (with 6-port ball valves VWG41.. or 6-port PICV VWPG51..):

• RDG26..T with product index Z, A or higher

For applications with previous RDG product indices, GDB161.9E or competitor actuators, it is requested to check the device version compatibility in Control output configuration for 6-port valve in Basic documentation.

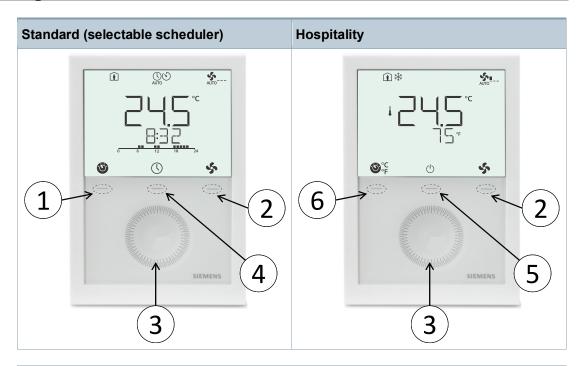
¹⁾ With PWM control, exact parallel run of 2 or more thermal actuators is not possible. If several fan coil units are controlled by the same room thermostat, motorized actuators with On/Off or 3-position control are preferred.

The room thermostat consists of two parts:

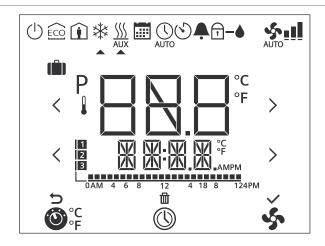
- Plastic housing with electronics, operating elements, and room temperature sensor
- Mounting plate with screw terminals

The housing engages in the mounting plate and is secured with 2 screws.

Operation and settings



Number	Description
1	Operating mode button/Esc
2	Fan mode button/OK
3	Capacitive rotary knob to adjust setpoints and parameters
4	Local schedule setting button, the schedule is enabled via P005
(5)	O Protection hospitality mode button
6	ॐ °C of Unit switching between °C and °F



#	Symbol	Description	#	Symbol	Description	
1	૾ 0/ ◎ °C	Operating mode selection/Unit switching	2	()	Scheduler	
3	\$	Fan speed selection	4	Þ	Escape	
5	ti	Delete schedule	6	~	Confirm parameters	
7	0AM 4 6 8 12 4 18 8 124PM	Time bar for schedule	8	1 2 3	Number of schedules	
9		Additional user information, such as time of day	10	AMPM	Morning: 12-hour format Afternoon: 12-hour format	
11	°C °F	Degrees Celsius or Fahrenheit	12	Р	Parameter	
13	₽	Value with thermometer: Digits for room temperature display	14	or o	Digits for setpoint display	
15	(Å)	Holiday mode	16	(h)	Protection mode	
17	ECO	Economy mode	18	Û	Comfort mode	
19	*	Cooling mode	20	<u>\\\\</u> AUX	Heating mode, electric heater active	
21	<u>\$\$\$</u>	Heating mode	22		Manual changeover, heating/cooling mode	
23		Scheduler mode	24	AUTO	Auto mode	
25	\bigcirc	Temporary timer	26	.	Fault	
27		Button lock	28	-•	Condensation in room (dewpoint sensor active)	
29	AUTO	Automatic fan	30	ıII	Fan speed I Fan speed I	
	7,010				■■_ Fan speed II	
					∎≣I Fan speed III	

Product documentation

Title	Document ID
Mounting instructions	RDG200T: A6V13375634 RDG260T: A6V13375640
Operating instructions	A6V11545973
Basic documentation	A6V11545892
CE declarations	A5W00120120A
RCM	A5W00120121A
Environmental product declaration	RDG200T: A5W00304666A RDG260T: A5W00304667A

Related documents such as the environmental declarations, CE declarations, etc., can be downloaded from the following Internet address:

www.siemens.com/bt/download

Notes

Security

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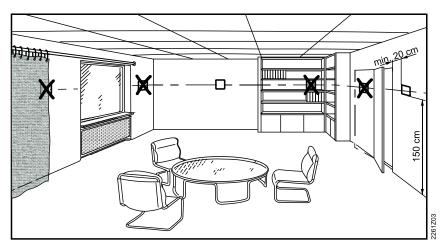


National safety regulations

Failure to comply with national safety regulations may result in personal injury and property damage.

• Observe national provisions and comply with the appropriate safety regulations.

Mounting and installation



Mounting

• The devices are suitable for wall mounting.

⚠WARNING! The device must not be mounted on a metallic surface: If no other possible installation options, use mounting adapter ARG200.

- Recommended height: 1.5 m above the floor.
- Do not mount the devices in recesses, shelves, behind curtains or doors, or above or near heat sources.
- Avoid direct solar radiation and drafts.
- Avoid unheated (uncooled) building area such as outside walls.
- Seal the conduit box or the installation tube if any, as air currents can affect sensor readings.
- Adhere to allowed ambient conditions.
- An external room temperature sensor is recommended if above situations cannot be avoided in the installation area.

Wiring

• Comply with local regulations to wire, protect and earth the thermostat.

⚠WARNING! No internal line protection for supply lines to external consumers (Q1, Q2, Q3, Yx or Yxx)! Risk of fire and injury due to short-circuits!

- Adapt the line diameters as per local regulations to the rated value of the installed over current protection device.
- The AC 230 V mains supply line must have an external circuit breaker with a rated current of no more than 10 A.
- Properly size the cables to the thermostat, fan and valve actuators for AC 230 V mains voltage.
- \(\text{\$\text{\$\Delta}\$ Use valve actuators rated for AC 230 V / AC 24 V / DC 24 V depending on mains voltage.
- Inputs X1-M, X2-M or X3-M: Multiple switches (e.g. summer/winter switch) may be connected in parallel. Consider overall maximum contact sensing current for switch rating.
- ♠ When mains voltage is AC 230 V, SELV inputs X1-M, X2-M and X3-M use cables with min. 230 V insulation.
- Selectable relay function: Follow instructions in basic documentation A6V11545892 (Relay functions) to connect external equipment to the relay outputs.
- \(\triangle \) Disconnect thermostat from power supply before removing from the mounting plate.

Commissioning

Applications and settings

The room thermostats are delivered with a fixed set of applications and related parameters. Select and activate the relevant application and settings during commissioning using one of the following tools:

- Local DIP switches and HMI
- Siemens smartphone application PCT Go

DIP switches

Set the DIP switches before snapping the thermostat to the mounting plate when selecting an application via DIP switches.

Set all DIP switches to Off (remote configuration) when selecting an application via commissioning tool.

After power is On, the thermostat resets and all LCD segments light up, indicating that reset is correct. After the reset of 3 seconds, the thermostat is ready for commissioning by qualified HVAC staff.

If all DIP switches are Off, **NO APPL** displays, indicating that application commissioning via a tool is required.

Commissioning via Siemens smartphone application PCT Go The setting via the Siemens smartphone application Product Commissioning Tool (PCT Go) is used to set the application and parameters settings of the thermostat.

DIP switches can be either all set to Off or preset with an application. (DIP switch setting has higher priority.)

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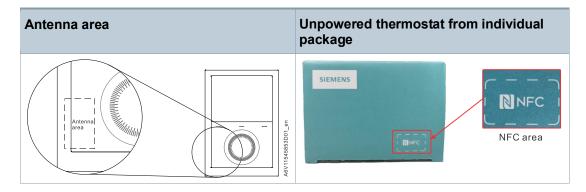
 Smart Infrastructure
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This tool allows for wireless setting of the thermostat with smartphone and read/write parameters.

The commissioning tool works directly after users scan either the antenna area of the thermostat or the NFC area on the individual package box.

In addition, users can:

- Scan the antenna area without powering on the thermostat.
- Scan the NFC area without unpacking the thermostat from the individual box.



Notes

- Each time the application is changed, the thermostat reloads the factory settings for all control parameters.
- The commissioning via Siemens smartphone application PCT Go can be disabled via parameters to avoid unexpected changes of the thermostat.

Control sequence

Set the control sequence via parameter P001 depending on the application. Factory setting:

Application	Factory setting P001
2-pipe and chilled/heated ceiling, and 2-stage	1 = cooling only
4-pipe, chilled ceiling and el. heater, 6-port ball valve applications	4 = heating and cooling

Calibrate sensor

Recalibrate the temperature sensor, if the room temperature displayed on the thermostat does not match the room temperature measured (after min. 1 hour of operation). To do this, change parameter P006.

Setpoint and range limitation

We recommend to review the setpoints and setpoint ranges (P011, P013...P016, P019, P020) and change them as needed to achieve maximum comfort and save energy.

Disposal



This symbol or any other national label indicate that the product, its packaging, and, where applicable, any batteries may not be disposed of as domestic waste. Delete all personal data and dispose of the item(s) at separate collection and recycling facilities in accordance with local and national legislation.

For additional details, refer to Siemens information on disposal.

Open Source Software (OSS)

All open source software components used within the product (including their copyright holders and the license conditions) can be found from the website http://www.siemens.com/download?A6V12046962.

Warranty

Technical data on specific applications are valid only together with Siemens products listed under "Equipment combinations". Siemens rejects any and all warranties in the event that third-party products are used.

Technical data

Power supply (RDG20T)	
Operating voltage (L-N)	AC 230 V +10/-15 %
Frequency	50/60 Hz
Power consumption	7 VA @ AC 230 V
Power reserve clock during power failure	Min. 20 h
٨	·



No internal fuse!

External preliminary protection with max. C 10 A circuit breaker required in all cases.

Outputs (RDG20T)	
Fan control Q1, Q2, Q3 – N	AC 230 V
Qx rating min., max. resistive (inductive)	5 mA5 (4) A



No internal fuse!

External preliminary protection with max. C 10 A circuit breaker required for all cases.



Do not connect 3-speed fans in parallel!

Connect one fan directly, one relay for each speed for additional fans.

Use for actuator control (Q1, Q2)

- Q1 rating min., max. resistive/inductive
- 5 mA...1 A
- Q2 rating min., max. resistive/inductive
- 5 mA...1 A

Outputs (RDG20T)	
 Use for external equipment (Q1, Q2, Q3) Rating min., max. resistive/inductive Qx Max total load current Q1+Q2+Q3 	5 mA1 A2 A
DC 010 V fan control; Y50-M	SELV DC 010 V, max. ±5 mA
Control outputs Y1, Y2, Y3, Y4-N Yx power limitation	Solid state (triacs) • AC 230 V • 8 mA1 A 3 A fast microfuse, cannot be exchanged

Power supply (RDG26T)		
Operating voltage (G-G0) DC 24 V: Make sure to connect G to + and G0 to -	AC 24 V ±20 % DC 24 V ±2 V	
Frequency	50/60 Hz	
Power consumption	4 VA @ AC 24 V	
Power reserve clock during power failure	Min. 20 h	
^		



No internal fuse!

External preliminary protection with max. C 10 A circuit breaker required for all cases.

Outputs (RDG26T)	
Fan control Q1/Q2/Q3/L-N	AC 24230 V / DC 24 V
Use for 3-speed fan control Rating min, max resistive (inductive)	AC 24230 V: 5 mA5 (4) A DC 24 V: 3 A



No internal fuse!

External preliminary protection with max. C 10 A circuit breaker required for all cases.



Do NOT connect 3-speed fans in parallel!

Connect one fan directly, for additional fans, one relay for each speed.

 Use for actuator control (Q1, Q2) Q1 - rating min., max. resistive/inductive Q2 - rating min., max. resistive/inductive Max total load current Q1+Q2 	 5 mA1 A 5 mA5 (4) A 5 A
 Use for external equipment (Q1, Q2, Q3) Rating min., max. resistive/inductive Qx Max total load current Q1+Q2+Q3 	5 mA1 A2 A

Outputs (RDG26..T)



No internal fuse!

External preliminary protection with max. C 10 A circuit breaker required for all cases.

DC 010 V fan control (Y50-M)	SELV DC 010 V, max. ±5 mA
Actuator control (Y10-G0/Y20-G0/Y30-G0 (G))	SELV DC 010 V, max. ±1 mA

Multifunctional inputs			
X1-M/X2-M/X3-M			
Temperature sensor input			
Туре	NTC 3k		
Temperature range -2070 °C			
Temperature sensor input			
Type LG-Ni1000			
Temperature range -4070 °C			
Digital input			
Operating action Selectable (NO/NC)			
Contact sensing DC 05 V, max. 5 mA			
Insulation against mains SELV			

Operational data			
Switching differential, adjustable			
Heating mode	(P051)	1 K (0.56 K)	
Cooling mode	(P053)	1 K (0.56 K)	
P-band Xp			
Heating mode (P050) 2 K (0.56 K)			
Cooling mode	(P052)	1 K (0.56 K)	
Setpoint setting and se	etpoint range		
Comfort mode	(P011)	21 °C (540 °C)	
Economy mode	(P019-P020)	15 °C/30 °C (OFF, 540 °C)	
Protection mode	(P100-P101)	8 °C/OFF (OFF, 540 °C)	
Multifunctional inputs X1/X2/X3 Selectable (06 & 914)			

Operational data			
Input X1 default value (P150)		1 (external temperature sensor, room or return air)	
Input X2 default value	(P153)	2 (H/C changeover)	
Input X3 default value (P155)		3 (window contact)	
Built-in room temperature sensor			
Measuring range		049 °C	
Accuracy at 25 °C		< ±0.5 K	
Temperature calibration range		±3 K	
Settings and display resolution			
Setpoint		0.5 °C	
Present temperature value displayed		0.5 °C	

Environmental conditions		
Storage	IEC 60721-3-1	
Climatic conditions	Class 1K3	
Temperature	-2565 °C	
Humidity	< 95 % r.h.	
Transport	IEC 60721-3-2	
Climatic conditions	Class 2K3	
Temperature	-2565 °C	
Humidity	< 95 % r.h.	
Mechanical conditions	Class 2M2	
Operation	IEC 60721-3-3	
Climatic conditions	Class 3K5	
Temperature	050 °C	
Humidity	< 95 % r.h.	

Standards and directives	
EU conformity (CE) RDG200T RDG260T	A5W00370264A *A5W00413573A *
Electronic control type	2.B (micro-disconnection on operation)

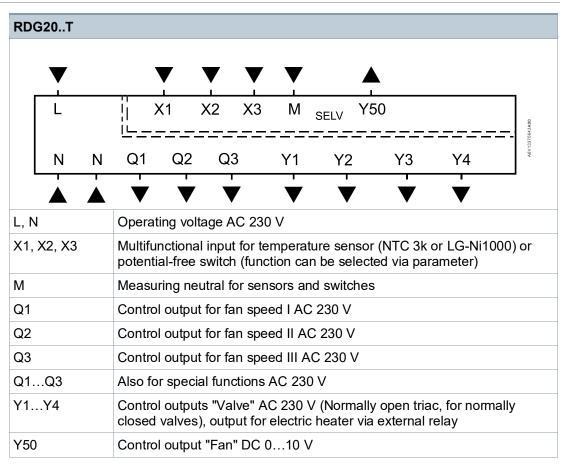
Standards and directives			
RCM conformity RDG200T RDG260T	A5W00370267A *A5W00413574A *		
UKCA RDG200T RDG260T	 A5W00370268A * A5W00413575A * 		
Protection class	II as per EN 60730		
Pollution class	Normal		
Degree of protection of housing	IP30 as per EN 60529		
Eco design and labeling directives	Based on EU directive 813/2013 (Eco design directive) and 811/2013 (Labelling directive) concerning space heaters, combination heaters, the following classes apply:		
 RDG20T Application with On/Off operation of a heater PWM (TPI) room thermostat, for use with On/Off output heaters 	Class I value 1 % Class IV value 2 %		
 RDG26T Application with On/Off operation of a heater PWM (TPI) room thermostat, for use with On/Off output heaters 	Class I value 1 % Class IV value 2 %		
Environmental compatibility	The product environmental declaration (RDG20T: A5W00304666A *, RDG26T: A5W00304667A *) contains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal).		

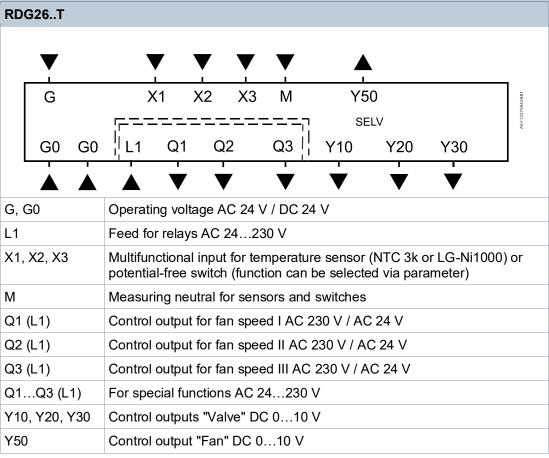
General	
Connection terminals	Solid wires or stranded wires with wire-end sleeves 1 x 0.42.5 mm ² or 2 x 0.41.5 mm ²
Minimal wiring cross section on L, N, Q1, Q2, Q3, Y1, Y2, Y3, Y4	Min. 1.5 mm ²

General	
Maximal wiring cross section on L, N, Q1, Q2, Q3, Y1, Y2, Y3, Y4	Max. 2.5 mm ²
Housing front color	RAL 9016 white
Weight without/with packaging RDG200T RDG260T	266 g/336 g 242 g/311 g

^{*)} The documents can be downloaded from https://hit.sbt.siemens.com.

Connection terminals





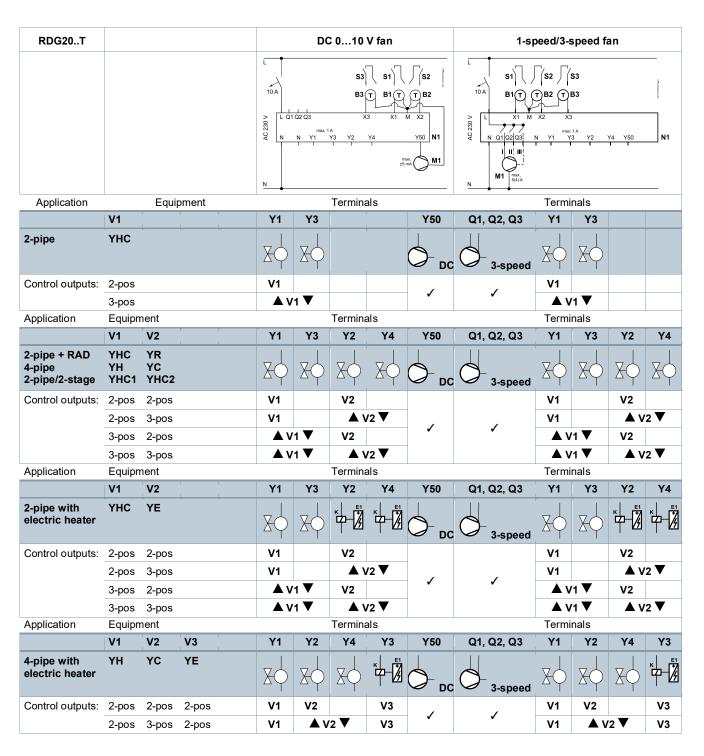
Connection diagrams

The connection workflow is as follows:

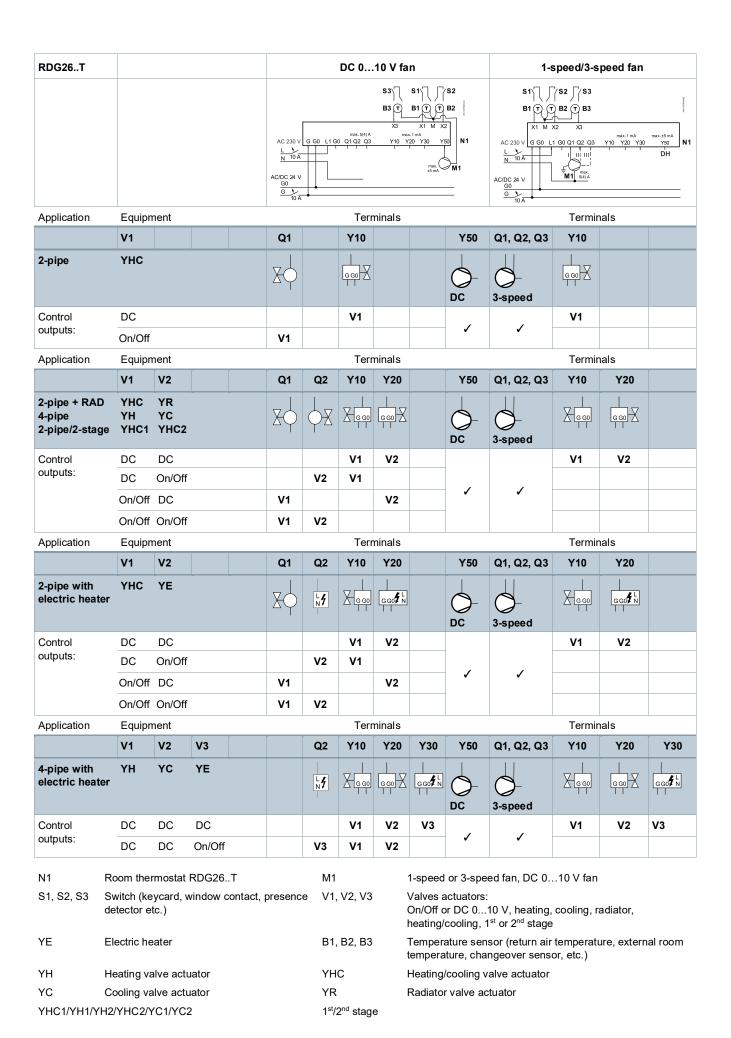
- Select fan control type: DC, 1-speed or 3-speed fan
- Select application type, e.g. 4-pipe
- Columns V1, V2, V3, V4 show the type of the outputs (e.g. for 4-pipe: YH for heating and YC for cooling) as well the available control signals
- Select the requested control output signals (e.g. 2-pos for heating, 2-pos for cooling)
- Equipments V1, V2 etc. stands for the connected equipment on each terminal, e.g. 4pipe with outputs of 2-pos and 2-pos, V1 (valve actuator) connects to Y1 and V2 (valve actuator) to Y2

Notes

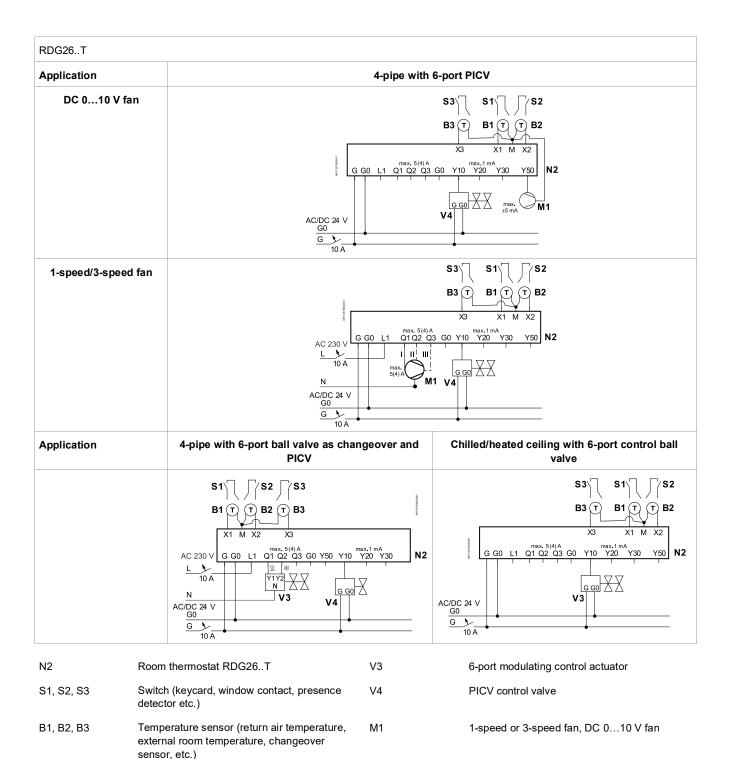
- "2-pos" can be used for control signal On/Off and PWM
- For universal application, fan function needs to be switched off via P350



N1	Room thermostat RDG20T	M1	1-speed or 3-speed fan, DC 010 V fan
S1, S2, S3	Switch (keycard, window contact, presence detector etc.)	B1, B2, B3	Temperature sensor (return air temperature, external room temperature, changeover sensor, etc.)
V1, V2, V3	Valve actuators: On/Off or PWM, 3-position, heating, cooling, radiator, heating/cooling, 1 st or 2 nd stage	YH	Heating valve actuator
YE	Electric heater	YC	Cooling valve actuator
K	Relay	YHC	Heating/cooling valve actuator
YR	Radiator valve actuator	YHC1/YH1/YH2/Y HC2/YC1/YC2	1 st /2 nd stage



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Note: In application "4-pipe with 6-port ball valve as changeover and PICV", Y50 can be connected with a DC 0...10 V fan.

Dimensions RDG2..T 29 (1.12") 28 (1.11") 25 (0.96") 4 (0.16") 16 (0.61") 92 (3.62") 134 (5.28") \bigoplus A6V11546008M00 28 (1.11") 28 (1.11") ARG200 96(3.78") 69(2.72") 20(0.79") 138(5.43") 112(4.41")

A6V11546008M01

Dimensions in mm (inch)

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