- Powered with AC 24V or DC 24V
- Temperature and humidity measurement
- Temperature or temperature and humidity control
- Heating or cooling
- On/Off or DC 0…10V control of heating / cooling actuators
- Automatic or manual fan speed control: 1-speed, 3-speed or DC Fan
- Automatic or manual heating / cooling changeover
- Multifunctional inputs for keycard contact, external sensor, etc.
- Adjustable commissioning and control parameters
- Backlit LCD
- KNX bus communications

Plant diagram
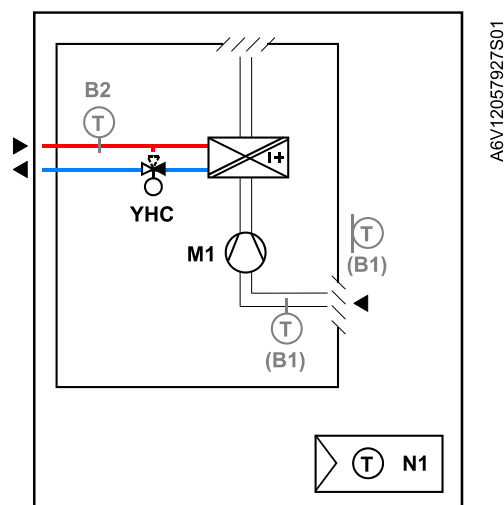
Description of general functions

When "2-pipe fan coil unit" is selected (via DIP switches or tool), the following functions are available. For details see basic documentation (A6V11545892 for RDG260KN)

Control sequence
- Control of thermal or motorized valve actuators (On/Off or DC 0…10 V)
- Heating only or cooling only
- Manual or automatic heating / cooling changeover

Fan control
- 1-speed, 3-speed or DC fan, automatic
- Manual speed control on room thermostat
- Fan control in dead zone
- Fan start related to the coil temperature

Room and humidity temperature measurement
- Internal sensor
- External room temperature sensor
- External return air sensor

Other functions
- Button lock
- 2nd line display setting
- Setting access with password protection
- Valve exercising to prevent from gripping

Humidity control
- By shifting temperature setpoint
- By controlling an external equipment

3 multifunctional inputs
- Temperature (room, return air, changeover …)
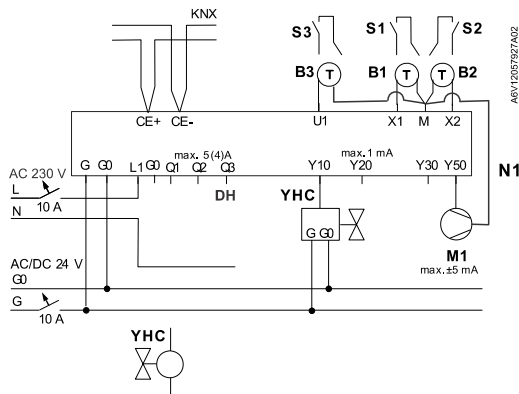- Digital (changeover, presence, window contact …)

Device list

Legend	Type of unit	Data sheet	Product No.	Qty.
N1	Room thermostat with KNX communications, AC 24 V or DC 24 V, for fan coil units and universal applications	A6V11545853	RDG260KN	1
YHC	2- or 3-port valve		V..P4..	1
	Actuator for small valves, 2-position, PWM, 3-position, On/Off or DC 0…10 V, AC 24 V or AC 230 V		SS..6.. / ST..2..	1

+ For selection of actuators and valves please refer to the product catalog

Optional

Legend	Type of unit	Data sheet	Product No.	Qty.
B1	Cable temperature sensor PVC 2.5 m, NTC 3 kOhm, with connectors 2.8 x 0.8 mm	N1840	QAH11	1
B2	Cable temperature sensor PVC 2.5 m, NTC 3 kOhm, with connectors 2.8 x 0.8 mm	N1840	QAH11	1

Variants

Legend	Type of unit	Data sheet	Product No.	Qty.
B1a	Room temperature sensor NTC 3 kOhm	N1747	QAA32	1

Connection diagram **DC 0…10 V fan** **1-speed/3-speed fan**
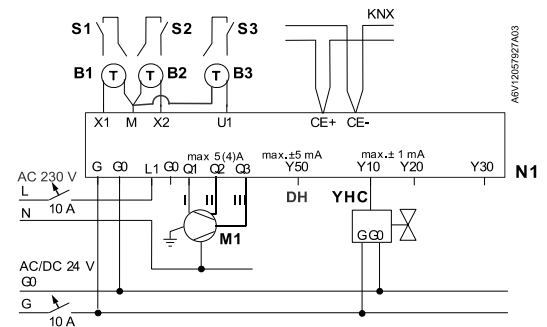
N1	Room thermostat RDG260KN	B1, B2, B3	Optional external sensors
M1	1-speed, 3-speed or DC 0…10 V fan	S1, S2, S3	Optional switches
YHC	Heating / cooling valve actuator (On/Off, DC 0…10 V)	CE+, CE-	KNX bus
DH	Dehumidifier: Q3=On/Off, Y50=0…10 V		

Notes
- Type of control output selectable via DIP switches and parameter P201 (On/Off, DC 0…10 V).
- Multifunctional input function selectable via parameters P150…P156 (Room temp. / return air temp, H/C changeover, window contact, dewpoint sensor, fault input)
- 3-speed, 1-speed or DC fan selectable via parameter P351

Setting option	**Device can be set via**
	- DIP switches and parameters
	- Smartphone APP PCT Go for Android™
	- Remotely via KNX tools such as Siemens ACS or ETS5

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DIP switch settings	**Application**	**DIP switches**	**Remark**
	Remote configuration (factory setting)	ON / OFF 1 2 3 4 5 6 7 8 ON = ▲ OFF = ☐ DIP No.: 1...8 DIP No.: 1...8	Application, outputs and parameters will be downloaded via commissioning tool
Application	2-pipe fan coil unit	▲ ☐ ☐ ☐ ☐ 1 2 3 4 5	Set DIP switch 1
Control outputs	• Heating / cooling actuator DC 0…10 V	☐ ☐ 7 8	Set DIP switch 7
	• Heating / cooling actuator On/Off	▲ ☐ 7 8	
Fan	• DC fan	☐ 6	Set DIP switch 6
			If DIP = "3-speed fan":
	• 1-speed fan, 3-speed fan	▲ 6	Select 1-speed fan, 3-speed fan via P351
			• 1-speed fan = 1
			• 3-speed fan = 2

Main settings	**Function**	**Parameters**	**Remarks**
Control sequence	Select the control sequence(s) of the controller	P001 = 0…3	0 = Heating only
			1 = Cooling only (Factory setting)
			2 = H/C changeover auto
			3 = H/C changeover manual
General parameters	User operating mode profile	P002 = 1…3	1 = Auto – Protection (Factory setting)
			2 = Auto – Comfort – Economy – Protection
			3 = Auto – Protection Hospitality
	User fan mode selection	P003 = 0...3	0 = Auto – Manual (Factory setting)
			1 = Manual
			2 = Auto – Manual – Protection
			3 = Auto – Protection
	Standard temperature display	P008 = 0, 1	0 = Room temperature (Factory setting)
			1 = Setpoint
	Additional display information	P009 = 0…5	0 = --- (No display) (Factory setting)
			1 = °C and °F
			2 = Outside temperature (via bus)
			3 = Time of day (12 h) (via bus)
			4 = Time of day (24 h) (via bus)
			5 = Humidity
	Comfort setpoint	P011 = 5...40 °C	Factory setting 21 °C
	Economy heating setpoint	P019 = OFF, 5 °C…P020	Factory setting 15 °C
	Economy cooling setpoint	P020 =OFF, P019 …40 °C	Factory setting 30 °C

Multifunctional inputs, digital input	External / return air temperature	P150 = 1	Factory set on X1
	No function	P153 = 0	Factory set on X2
	Window contact	P155 = 3	Factory set on U1

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Inputs selection	0 = --- (no function)		7 = Monitor input (Digital)(DI)
	1 = Room temp ext. sensor / return (AI)		8 = Monitor input (Temp) (AI)
	2 = H/C changeover (AI/DI)		9 = Supply air sensor (AI)
	3 = Window contact [PROT] (DI)		10 = Presence detector / card reader (DI)
	4 = Dewpoint sensor (DI)		11 = External temperature limit (AI)
	5 = Enable electric heater (DI)		12 = Coil temperature (AI)
	6 = Fault input (DI)		13 = Hotel presence detector / card reader (DI)
Fan setting	Fan type 1-speed	P351 = 1	
	Fan type 3-speed	P351 = 2	
	DC fan	P351 = 3	
Humidity control	Control strategy	P450 = 0	Only temperature control (default)
		P450 = 1	Temperature and humidity control
	Humidity setpoint high	P024 = OFF, P026 or 20…90 %	Factory setting: 50
	Humidity setpoint low	P026 = OFF, 20…90 % or P024	Factory setting: OFF
	Max. shift temp setpoint (Dehumid.)	P461 = -3...3 K	Temperature setpoint deviation due to the humidity in the room
Engineering	For a complete list of parameters and detailed description of functions see basic documentation: A6V11545892 for RDG260KN; For engineering of RDG in conjunction with Synco see CE1P3127 (Communication via the KNX bus for Synco 700, Basic documentation)		

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