

Room thermostat BACnet/Modbus

RDF400BN, RDF440BN.., RDF460BN





For 2-pipe, 2-pipe with electric heater and 4-pipe fan coil units

- Selectable bus communication protocol: BACnet MS/TP or Modbus RTU server
- Slim design with touch button and frameless backlit display
- Fan output:

1-speed and 3-speed fan (RDF400BN, RDF440BN...)
 DC 0...10 V fan (RDF440BN..., RDF460BN)

Control output:

2-wire or 3-wire On/Off valve actuator
 3-position valve actuator
 DC valve actuator
 (RDF400BN, RDF460BN)
 (RDF400BN...)

- 2 multifunctional inputs 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, bus or Siemens smartphone app QuickConfig
- Mounting on recessed square 86 mm conduit box with 60.3 mm fixing centers
- Operating voltage:

- AC 100...230 V (RDF400BN, RDF460BN)

- AC/DC 24 V (RDF440BN..)





The thermostat is designed for use with:

- Fan coil units with 1-/3-speed fan controlling (RDF400BN):
 - 2-pipe system, 2-wire On/Off valve actuator
 - 2-pipe system, 3-wire On/Off valve actuator
 - 2-pipe system, 3-position valve actuator
 - 2-pipe system with electric heater, 2-wire On/Off valve actuator
 - 4-pipe system, 2-wire On/Off valve actuator
- Fan coil units with 1-/3-speed or DC 0...10 V fan controlling (RDF440BN..):
 - 2-pipe system, DC 0...10 V valve actuator
 - 4-pipe system, DC 0...10 V valve actuator and 1-/3-speed fan only
- Fan coil units with DC 0...10 V fan controlling (RDF460BN):
 - 2-pipe system, 2-wire On/Off valve actuator
 - 2-pipe system, 3-wire On/Off valve actuator
 - 2-pipe system, 3-position valve actuator
 - 2-pipe system with electric heater, 2-wire On/Off valve actuator
 - 4-pipe system, 2-wire On/Off valve actuator

Functions

General functions

- Room temperature control via built-in temperature sensor, external room temperature sensor or temperature from bus
- Selection of operating modes via operating mode button: Comfort or Economy
- Selection of automatic or manual fan mode
- Changeover between heating and cooling mode (automatic via local sensor or bus, or manually)
- Measured value adjustment of built-in or external temperature sensor
- Key lock function
- Configurable operating mode after power-up: Previous mode, Comfort or Protection
- Surge protection at power-up

Setpoints and display

- Min. and max. limitation of room temperature setpoint
- Display of current room temperature or setpoint in °C, °F or both
- · Display of time of day from bus

Setting

- Setting of commissioning and control parameters via:
 - Local HMI
 - BACnet/Modbus commissioning tool
 - Siemens smartphone app Quick Config
- Reloading factory settings
- User settings and control parameters are retained in case of power failure
- Password protection for parameters (disabled by default)

Fan

- 1-speed, 3-speed or DC 0...10 V fan control
- Configurable fan kick in Economy
- Configurable fan start kick
- Configurable fan operation in zero energy zone (dead zone)
- Fan operating hours counter

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Inputs

- 2 multifunctional inputs, X1 (for sensor/dry contact/DC 0...10 V) and D1 (for dry contact), selectable for:
 - External room temperature sensor
 - Sensor for automatic heating/cooling changeover
 - Switch for remote heating/cooling changeover
 - Window contact to switch operating mode to Protection
 - External alarm source for status reporting via bus
 - Presence detector to switch operating mode to Comfort
 - Hotel presence detector to switch operating mode to Economy and lock the screen when the room is unoccupied
 - DC 0...10 V feedback signal of modulating valve state (RDF440BN..)

Communication

- Selectable communication protocol: BACnet MS/TP or Modbus RTU server
- Central control of setpoints and operating mode from bus
- Monitoring of device status via bus
- Read/write parameter via bus
- Force change of operating mode to Protection via bus

Mechanical design

The thermostat consists of two parts:

- Control unit with user interface and I/O module
- Mounting bracket to fit in a square conduit box with 60.3 mm fixing centers.

Operating and setting elements



Information	Description	Information	Description
a	Keylock	(!)	Alarm
AUTO [] []	Fan mode	<u>£00</u>	Economy mode
\$ \$\$	Heating mode	۵	Valve on
*	Cooling mode	SET	Setpoint adjustment
P	Parameter setting	✓	Confirm
OFF	Protection mode	~	Exit
188.5	Temperature or parameter values, etc.	-18:8.8 ^{£C}	Secondary display

Button	Description	Button	Description
S	Switch fan mode		On / Off or confirm (✓)
M	Mode selection or exit (♠)	+-	Increase, decrease or select

Type summary

Product no.	Stock no.				Control outputs			Fan types		Description
		color	voltage	On/Off	3-pos	DC 010 V	On/Off (3-wire)	3-speed	DC 010 V	
RDF400BN	S55770-T508	White	AC 100230 V	√	✓	-	✓	✓	-	Room thermostat BACnet/ Modbus
RDF440BN	S55770-T509	White	AC/DC 24 V	-	-	√	-	✓	✓	Room thermostat BACnet/ Modbus
RDF440BN-BK	S55770-T539	Black	AC/DC 24 V	-	-	√	-	✓	✓	Room thermostat BACnet/ Modbus
RDF460BN	S55770-T510	White	AC 100230 V	1	✓	-	✓	-	√	Room thermostat BACnet/ Modbus

Ordering

When ordering, specify both product number / stock number and name: e.g. **RDF400BN / S55770-T508 Room thermostat BACnet/Modbus**

Order valve actuators and external sensors separately.

Equipment combinations

Type of units	Product no.	Data sheet *)	
Cable temperature sensor or changeover sensor, cable length 2.5 m NTC (3 k Ω at 25 °C)	0	QAH11.1	N1840
Room temperature sensor NTC (3 kΩ at 25 °C)		QAA32	1747
Cable temperature sensor, PVC cable length 2 m NTC (10 k Ω at 25 °C)	0	QAP1030.200	N1831
Room temperature sensor NTC (10 kΩ at 25 °C)		QAA2030	1745

On/Off actuators (RDF400BN, RDF460BN)

Type of units	Product no.	Data sheet *)	
Electromotive On/Off valve and actuator (only available in AP, UAE, SA and IN)		MVI/MXI	A6V11251892
Electromotive On/Off actuator	- my	SFA21	N4863
Zone valve actuator (only available in AP, UAE, SA and IN)		SUA	A6V10446174

3-positon actuators AC 230 V (RDF400BN, RDF460BN)

Type of unit	Product no.	Datasheet *)	
Electric actuator, 3-position (for radiator valves) AC 230 V		SSA331	A6V11858276
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	5	SSP31	4864
Electric actuator, 3-position (for small valves 5.5 mm) AC 230 V		SSB31	4891
Electric actuator, 3-position (for small valve 5 mm) AC 230 V		SSD31	4861
Electric actuator, 3-position (for valves 5.5 mm) AC 230 V		SAS31	4581

DC 0...10 V actuators (RDF440BN..)

Type of unit		Product no.	Datasheet *)
Electric actuator, DC 010 V (for radiator valves)		SSA161	A6V11858278
Electric actuator, DC 010 V (for 2- and 3-port valves/VP45)		SSC161	A6V12681511
Electric actuator, DC 010 V (for small valves 2.5 mm)		SSF161	A6V12681511
Electric actuator, DC 010 V (for small valves 5.5 mm)	3	SSB161	A6V12681511
Electromotive actuator, DC 010 V (for valves 5.5 mm)		SAS61	4581
Electrothermal actuator, AC 24 V, NC, DC 010 V, 1 m		STA161	A6V14028280
Electrothermal actuator, AC 24 V, NO, DC 010 V, 1 m		STP161	A6V14028280

^{*)} All documents can be downloaded from http://siemens.com/bt/download.

Title	Product	Document ID
Mounting instructions	RDF400BNRDF440BNRDF460BN	A6V13989826A6V12905642A6V14064629
Basic documentation	All	A6V14153583
CE declaration	All	A5W00725824A
RCM declaration	All	A5W00727514A
UKCA declaration	All	A5W00725826A
Environmental product declaration	RDF400BN, RDF440BN, RDF460BNRDF440BN-BK	A5W00718438AA5W02668786A

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

www.siemens.com/bt/download

Notes

Security

A CAUTION

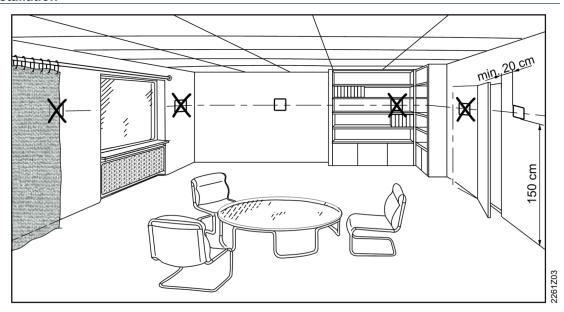


National safety regulations

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

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

Mounting and installation



Mounting

Siemens

 The device is suitable for mounting on a recessed square conduit box with 60.3 mm fixing centers.

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- 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 areas 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.

▲ WARNING



Device damage

Carefully read all wiring diagrams prior to installation to avoid damage to the device caused by incorrect wiring of high or low voltages.

See Mounting Instructions A6V13989826 (RDF400BN), A6V12905642 (RDF440BN..) or A6V14064629 (RDF460BN) enclosed with the thermostat.

Wiring

WARNING

Wire, protect and earth in compliance with local regulations.

Risk of fire and injury due to short-circuits!



- Adapt the line diameters as per local regulations to the rated value of the installed overcurrent protection device.
- The power supply line (AC 100...230 V or AC 24 V) must have an external circuit breaker with a rated current of no more than 10 A.
- Disconnect from power before removing the device from its mounting plate.
- Isolate the cables of all SELV terminals for AC 100...230 V, e.g., BACnet/Modbus communication input BN+, BN- and REF for AC 100...230 V.
- The nominal power of the electrical heater must be less than 0.8 kW, additional security element must be installed. (RDF400BN, RDF460BN)

Commissioning

After initial power-up, all LCD segments light up for about 3 seconds. Afterwards, the device enters parameter setting mode and is ready for commissioning by gualified HVAC staff. After commissioning, parameter settings mode is closed, the device restarts and is ready for normal operation.

The device control parameters can be adjusted to ensure optimum performance of the entire system (see Control parameters in **Basic documentation**).

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 HMI
- BACnet/Modbus commissioning tool
- Siemens smartphone app Quick Config

Commissioning via smartphone application Quick Config

Use the smartphone application Quick Config for the application and parameters settings of the thermostat.

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

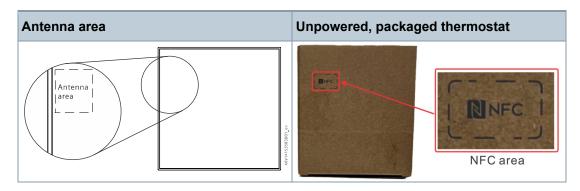
The commissioning tool works directly after users scan either the antenna area of the thermostat or the NFC area on the individual package box.

NOTICE! Before scanning, users must verify smartphone NFC area to ensure communication between smartphone and thermostat.

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In addition, users can:

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



Notes

 Commissioning via smartphone app Quick Config can be disabled via parameters to avoid unwanted changes to the thermostat.

Control sequence

Set the control sequence via parameter P02 depending on the application. Factory setting:

Application	Factory setting (P02)
2-pipe	2 = Cooling only
4-pipe	5 = Heating and cooling

Surge protection at power-up

When the thermostats are powered, the control outputs start at random to protect the electric system against overload. It takes up to 3 seconds for all thermostat outputs to function properly.

Measured value adjustment

For a proper temperature display, the device has an internal or external sensor connected via X1. If the installation location impacts the temperature reading, adjust the sensor via parameter P13 to correct the readings.

Setpoint and range limitation

For comfort and to save energy, review all setpoint related parameters and adapt them as needed.

MAC address (BACnet)

The MAC address is assigned to "4" (factory setting). Engineers/installers can change the address value using parameter P93 as needed.

Device address (Modbus)

The device address is assigned to "1" (factory setting). Engineers/installers can change the address value using parameter P93 as needed.

Baud rate

The baud rate is selectable. Five settings are available for the BACnet network: Auto, 9600 bps, 19200 bps, 38400 bps and 76800 bps (38400 bps is default).

Four settings are available for the Modbus network: Auto, 9600 bps, 19200 bps and 38400 bps (19200 bps is default).

Modbus data frame format

The Modbus data frame format can be set to 1 = 1/8/E/1, 2 = 1/8/O/1, 3 = 1/8/N/1 or 4 = 1/8/N/2 (1/8/E/1 is default).

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.

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 $\underline{\text{https://www.siemens.com/global/en/products/automation/topic-areas/industrial-cybersecurity.html}}$

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https://www.siemens.com/cert/ => 'Siemens Security Advisories'

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

AC 100230 V
AC 100230 V
50/60 Hz
Max. 5 VA / 3 W
1 VA / 0.5 W
M



No internal fuse!

External preliminary protection with max. C 10 A circuit breaker in the supply line required under all circumstances.

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Power supply (RDF440BN)			
Operating voltage	AC/DC 24 V		
Power consumption	Max. 5 VA / 3 W		
Standby power consumption	1.2 VA / 0.5 W		
External supply line protection (EU)	Circuit breaker max. 10 A Characteristic B, C, D as per EN 60898 or Power source with max. 10 A current limitation		

Power supply (RDF460BN)		
AC 100230 V		
50/60 Hz		
Max. 5 VA / 3 W		
1 VA / 0.5 W		



• No internal fuse!

External preliminary protection with max. C 10 A circuit breaker in the supply line required under all circumstances.

BACnet interface	
Type Transmit mode Connection Baud rate MAC address Cable length BACnet services supported	RS485 MSTP Up to 60 Auto, 9600, 19200, 38400 (default), 76800 0127, 4 (default) Max.1200 meters Read property-B, Read propertyMultiple-B, Write property-B, Write propertyMultiple-B, Who-is, Who-has, subscribe COV-B, subscribe COVP-B, etc.

Modbus interface	
Type Transmit mode Connection Baud rate Device address Cable length Identity Transmission format (start bit – data – parity – stop)	RS485 RTU Up to 32 Auto, 9600, 19200 (default), 38400 1127, 1 (default) Max.1200 meters Server 1 = 1-8-E-1 (default) / 2 = 1-8-O-1 / 3 = 1-8-N-1 / 4 = 1-8-N-2

Near field communication (NFC)	
NFC	13.56 MHz
Max. magnetic field strength	<42 dBµA/m@10 m (depending on NFC reader)

Wiring (RDF400BN)	
Diameter Power, input, and output (L, N, Q1, Q2, Q3, Y1, Y2) SELV signal (BN+, BN-, Ref, X1, M, D1) Wire	1.01.5 mm ² 0.51.5 mm ² Solid or prepared stranded wires

Wiring (RDF440BN)	
Diameter Power, input, and output (L1, Q1, Q2, Q3) SELV signal (G, G0, M, Y10, Y20, BN+, BN-, Ref, X1, M, D1) Wire	1.01.5 mm ² 0.51.5 mm ² Solid or prepared stranded wires

Wiring (RDF460BN)	
Diameter Power, input, and output (L, N, Y1, Y2) SELV signal (BN+, BN-, Ref, X1, M, D1, M, Y50) Wire	1.01.5 mm ² 0.51.5 mm ² Solid or prepared stranded wires

Output	
1-/3-speed fan (RDF400BN)	Q1Q3
Type	On/Off
Voltage	AC 100230 V
Maximum current	5(2) A

Output	
1-/3-speed fan (RDF440BN)	Q1Q3
Type	On/Off
Voltage	AC 24230 V
Maximum current	5(2) A
ECM fan (RDF440BN, RDF460BN)	RDF440BN: Y20, RDF460BN: Y50
Type	DC
Voltage	DC 010 V
Maximum current	±5 mA
Valve output (RDF400BN, RDF460BN)	Y1 (N.O.), Y2 (N.O.)
Voltage	AC 100230 V
Maximum current	5(2) A
Valve output (RDF440BN)	Y10, Y20
Voltage	DC 010 V
Maximum current	±1 mA

A CAUTION



If fans must be connected in parallel, connect one fan directly, for additional fans, one relay for each speed.

Multifunctional input		
X1-M		
Temperature sensor input		
Туре	NTC 3k	
Temperature range	-2070 °C	
Temperature sensor input		
Туре	NTC 10k	
Temperature range	-2070 °C	
Digital input		
Operating action	Selectable (NO/NC)	
Contact sensing	DC 05 V, max. 5 mA	
Insulation against mains power	SELV	

Operating data	
Hysteresis	
- Heating mode (P43)	0.56 K (factory setting: 2 K)
- Cooling mode (P44)	0.56 K (factory setting: 1 K)
P-band Xp	
- Heating mode (P43)	0.56 K (factory setting: 2 K)
- Cooling mode (P44)	0.56 K (factory setting: 1 K)
Setpoint setting range	
- Comfort mode (P20, P21)	540 °C
- Economy mode (P22, P23)	Off, 540 °C
- Protection mode (P50, P51)	Off, 540 °C
Built-in room temperature sensor	
- Measuring range	050 °C
- Accuracy at 25 °C	< ±0.5 K
- Temperature calibration range	-5.0+5.0 K
Settings and display resolution	
- Temperature setpoints	0.5 °C
- Current temperature value displayed	0.5 °C

Ambient conditions and protection classification	
Classification as per EN 60730 Function of automatic control devices Degree of pollution Overvoltage category Action type Rated impulse voltage Maximum altitude Software class	Type 1 2 III 1 as per EN 60730-1 4 kV as per EN 60730-1 3000 m as per EN 60730-1 A as per EN 60730-1
Classification of protection against electric shock	Device suited for use with equipment of protection class II.
Degree of protection of housing to EN 60529 (after mounting in position) Room automation station With terminal cover	IP30 IP30
Climatic ambient conditions - Storage as per EN 60721-3-1 Temperature Humidity - Transport (packaged for transport) as per EN 60721-3-2 Temperature Humidity - Operation as per EN 60721-3-3 1) Temperature Humidity	-5+50 °C 595 % r.h. -25+70 °C 595 % r.h. 050 °C 595 % r.h.
Mechanical ambient conditions Storage as per EN 60721-3-1 Transport as per EN 60721-3-2 Operation as per EN 60721-3-3	Class 1M2 Class 2M2 Class 3M2

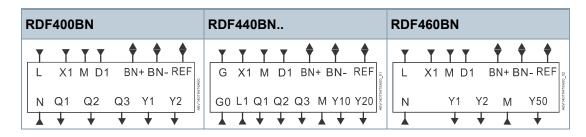
¹⁾ No condensation permitted.

Standards, directives and approvals	
Electromagnetic compatibility	For residential, commercial environments
EU conformity (CE)	A5W00725824A *)
RCM	A5W00727514A *)
UKCA	A5W00725826A *)
REACH	Regulation (EC) No 1907/2006 Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)
RoHS	Directive 2011/65/EU restriction of the use of certain hazardous substances in electronic equipment
Environmental compatibility	The product environmental declaration (RDF400BN, RDF440BN, RDF460BN: A5W00718438A *; RDF440BN-BK: A5W02668786A *) contains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal).

General				
Weight without/with package				
RDF400BN	• 162.8 g / 256.4 g			
RDF440BN	• 155 g / 248.4 g			
RDF440BN-BK	• 155.5 g / 246.7 g			
RDF460BN	• 151.9 g / 247.4 g			
Materials				
Control unit	• PC			
Mounting plate	• PC + 10% GF			
Colors				
Frame	White RAL 9016			
Screen	Black RAL 9005			
Housing flammability class as per UL94	V-0			

 $^{^{*)}}$ The documents can be downloaded from $\underline{\text{http://siemens.com/bt/download}}$.

Connection terminals

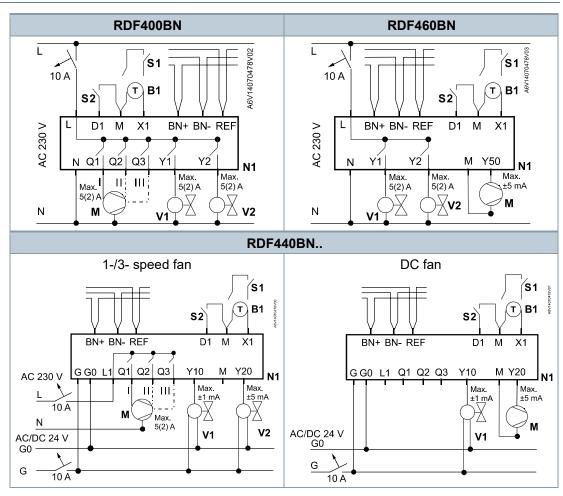


L, N	AC 100230 V power supply, mains and neutral			
G, G0	AC/DC 24 V power supply			
L1	Feed for relays AC 24230 V			
Q1 **	Fan control output (relay output), Q1-low (AC 100230 V)			
Q2 **	Fan control output (relay output), Q2-middle (AC 100230 V)			
Q3 **	Fan control output (relay output), Q3 -high (AC 100230 V)			
Y1 *	SPST relay output, 2-pipe cooling/heating, or 4-pipe heating, normally open (AC 100230 V)			
Y2 *	SPST relay output, 2-pipe with electric heater, or 4-pipe cooling, normally open (AC 100230 V)			
Y10	Control outputs "valve" DC 010 V, 2-pipe cooling/heating, or 4-pipe heating			
Y20	Control outputs "valve" DC 010 V, 4-pipe cooling, and 2-pipe DC fan			
Y50	Control output "Fan" DC 010 V			
X1	Multifunctional input, e.g., sensor, switch or DC 010 V signal (actuator feedback)			
М	Input reference ground for X1, D1 or DC fan reference			
D1	Digital input, e.g., switch			
BN+, BN-	BACnet or Modbus terminals			
REF	BACnet or Modbus reference ground			

^{* 3-}wire valve and 3-position valve actuators can also be used for 2-pipe application with Y1 and Y2 connected and P04 configured.

^{**} For RDF440BN.., the relay voltage for Qx is AC 24...230 V.

^{***} Isolated for RDF440BN..



N1	RDF400BN/RDF440BN/RDF460BN			
L, N	AC 100230 V power supply, mains and neutral			
G, G0	AC/DC 24 V power supply			
L1	Feed for relays AC 24230 V			
Q1, Q2, Q3 **	Fan control output (relay output), Q1-low, Q2-middle, Q3 -high (AC 100230 V)			
Y1 *	SPST relay output, 2-pipe cooling/heating, or 4-pipe heating, normally open (AC 100230 V)			
Y2 *	SPST relay output, 2-pipe with electric heater, or 4-pipe cooling, normally open (AC 100230 V)			
Y10	Control outputs "valve" DC 010 V, 2-pipe cooling/heating, or 4-pipe heating			
Y20	Control outputs "valve" DC 010 V, 4-pipe cooling, and 2-pipe DC fan			
Y50	Control output "Fan" DC 010 V			
X1	Multifunctional input, e.g., sensor, switch or DC 010 V signal (actuator feedback)			
М	Input reference ground for X1, D1 or DC fan reference			
D1	Digital input, e.g., switch			
BN+, BN- ***	BACnet or Modbus terminals			
REF	BACnet or Modbus reference ground			

^{* 3-}wire valve and 3-position valve actuators can also be used for 2-pipe application with Y1 and Y2 connected and P04 configured.

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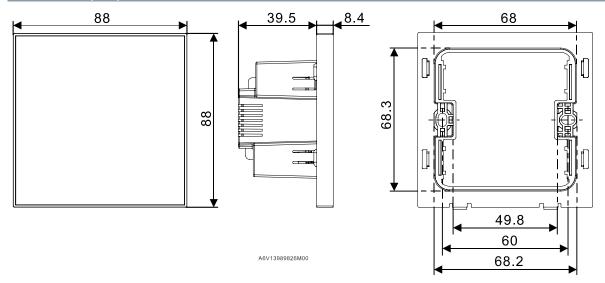
^{**} For RDF440BN.., the relay voltage for Qx is AC 24...230 V.

^{***} Isolated for RDF440BN..

Application and diagram					
2-pipe fan coil unit	4-pipe fan coil unit				
YHC (F) (B1) (B1)	OYC (B1)				
2-pipe fan coil unit with electric heater					
YE NOW (B1) YHC (T) (B1)					

YHC Heating/cooling valve actuator	YE Electric heater
YH Heating valve actuator	YC Cooling valve actuator
B1 External room temperature sensor (optional)	B2 Changeover sensor (optional)
M1 1-speed or 3-speed fan	

Dimensions (mm)



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