

THERMOSTATS & CONTROLLERS



BACNET OR CONVENTIONAL COMMERCIAL ROOM THERMOSTAT RDY2000, RDY2000BN

DESCRIPTION

The Siemens Series **RDY2000 Commercial Room Thermostat** is designed for light commercial HVAC systems that utilize 24 VAC control circuitry. It is compatible with forced air, hydronic, or steam systems fired by gas, oil, or electricity. The thermostat can control up to three stages of heating and three stages of cooling in a conventional system and heat pumps systems with up to two compressors and two stages of auxiliary heat. The RDY2000 can interface with remote sensors and devices to completely manage all aspects of room comfort, including temperature, humidity, and air quality. The **RDY2000BN** is BACnet MS/TP compatible for communication with other network devices.

NEW!

SIEMENS



RDY2000

FEATURES

- Compatible with conventional and heat pump applications
- Controls conventional systems with up to three stages of heating and three stages of cooling
- On-board temperature and humidity sensors
- Set-up Wizard enables rapid system configuration
- Remote Sensors (Occ, CO2, RH, Temp, Doorswitch)
- BACnet MS/TP version available (RDY2000BN)

- Programmable, 7 day, 4 periods/day
- CO2 sensor input to start fan and ventilation
- Password protected installer set-up menu deters unauthorized changes
- Selectable lockout levels to minimize tampering with set points and schedule
- Sleek design with backlit 5" LCD touch screen

SPECIFICATIONS

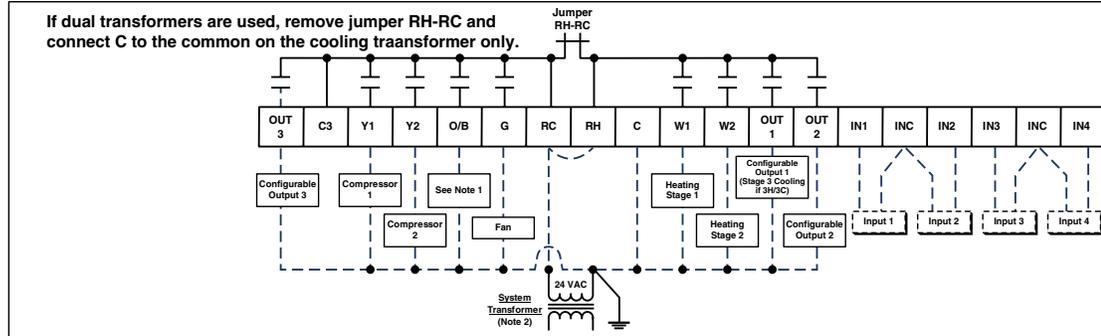
Supply Voltage	24 VAC ±20%, Class 2, 4A max.	MS/TP Load	1/8 (96 K), internal network bias
Amp Load per Contact	1.0A	Fan Switch	AUTO-ON
Battery	3AA (included), required	Comfort/Economy	Programmable, 7 day, 5+2, 5+1+1
Keypad Lock	Yes, 3 levels	Comfort Periods	Up to 4 per day
System Compatibility		Operating Temperature	23° to 122°F (-5° to 50°C)
Conventional	3H/3C	Operating Humidity	Up to 95% RH, non-condensing
Heat Pump	4H/2C	Enclosure	NEMA 1
Protection Delay	Adjustable, 1-10 min.	Output	Pilot duty, 1A max per output, 4A max total
Minimum Run Time	Adjustable, 1-10 min.	Storage Temperature	-13° to 158°F (-25° to 70°C)
Case Size	4.3"H x 5.5"W x 1.2"D (10.9 x 14.0 x 3.05 cm)	Approvals	cUL File # E35198, FCC, ICES (Canada), NOM-NYCE (Mexico), Regulatory Compliance Mark (Australia), CE
Remote Sensor	Optional (temp/humidity/CO2/Motion)	Product Weight	0.72 lb (0.33 Kg)
Temperature Display	45° to 95°F (7° to 35°C)	Product Dimensions	4.3"H x 5.5"W x 0.2"D (10.9 x 14.0 x 0.5 cm)
Display Size	2.5"H x 4.3"W (6.4 x 10.9 cm)	Shipping Weight	0.88 lb (0.4 Kg)
Temp Resolution	1°F (0.5°C)	Shipping Dimensions	5.0"H x 6.0"W x 1.75"D (10.2 x 15.25 x 4.5 cm)
Economy Offset	Programmable		
Differential	Adjustable, 1° to 10°F (0.5° to 5°C)		
Deadband	Adjustable, 1° to 10°F (0.5° to 5°C)		
System Switch	OFF-COOL-HEAT-AUTO		
Communication	BACnet MS/TP		
MS/TP Communications	9600, 19200, 38400, 57600, 76800, 115200, baud rate		

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WIRING

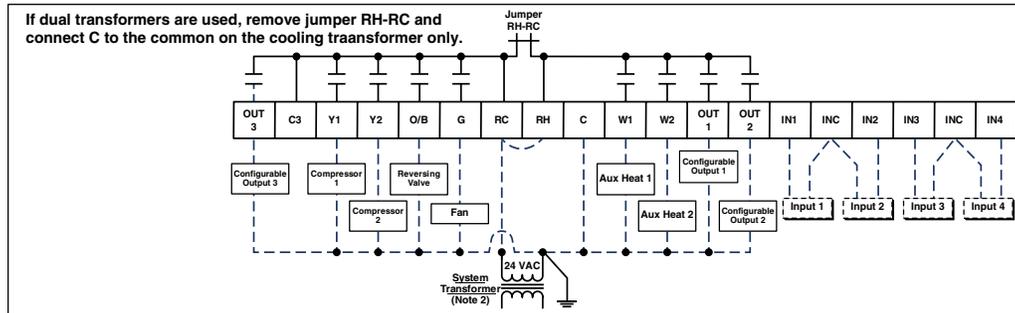
Conventional System



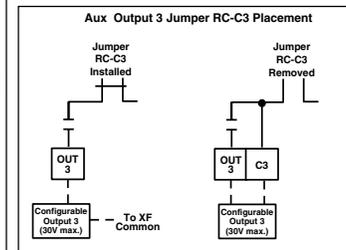
NOTE 1:
O/B Terminal Function in 3 Stage Conventional Systems

System Configuration	O/B Terminal Function
0H/3C	Stage 3 Cooling
1H/3C	Stage 3 Cooling
2H/3C	Stage 3 Cooling
3H/0C	Stage 3 Heating
3H/1C	Stage 3 Heating
3H/2C	Stage 3 Heating
3H/3C	O/B: Stage 3 Heating (OUT1: Stage 3 Cooling)

Heat Pump



Wiring Schematic, Heat Pump



Note 2: 24VAC Class 2 Control Transformer: Maximum transformer load 80% (4A rating maximum load 3.2A).
Install with mounting feet to grounded equipment chassis. Connect common to grounded equipment chassis at transformer

ORDERING INFORMATION

MODEL
RDY2000
RDY2000BN

DESCRIPTION
3H/3C & HP Commercial Programmable Room Thermostat with Remote Sensor Inputs
3H/3C & HP Commercial Programmable Room Thermostat, BACnet with Remote Sensor Inputs

- ACCESSORIES**
- QAA2330.EWNN** Remote wall mounted sensor - temperature only
 - QAC2030** Outdoor air temperature sensor
 - QAD2030** Surface mount pipe temperature sensor
 - QAM2030.010** Duct mounted temperature sensor
 - QFA33SS.EWNN** Remote wall mounted temperature & humidity sensor
 - QFM2160U** Duct mounted temperature & humidity sensor
 - QPA2000** Wall mounted CO2 sensor
 - QPA2062** Wall mounted temperature + humidity + CO2 sensor
 - QPM2162** Duct mounted temperature + humidity + CO2 sensor