

## **RDY2000 Commercial Room Thermostat**

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usa.siemens.com/infrastructure-cities

### Meet the RDY2000

#### The RDY2000 is a thermostat designed for North American commercial HVAC systems.

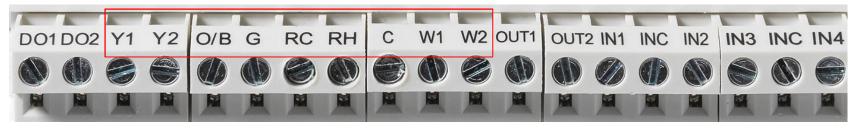
- Pre-loaded applications for multi-stage conventional systems and heat pumps
  - Conventional systems up to 3H / 3C
  - Heat Pumps up to 4H / 2C (2 Aux Heat.)
- Timers & interlocks prevent short cycling and other undesirable situations
- Fully programmable with commercial building schedule profiles
- Onboard temperature and humidity sensors
- No special tools required for installation and commissioning
- Ideal for small commercial facilities such as...
  - Medical / Financial / Insurance offices
  - Retail establishments
  - Sandwich / coffee shops
  - Light manufacturing facilities





### **24Vac Outputs**

#### "Typical" HVAC outputs



#### 3 Configurable outputs

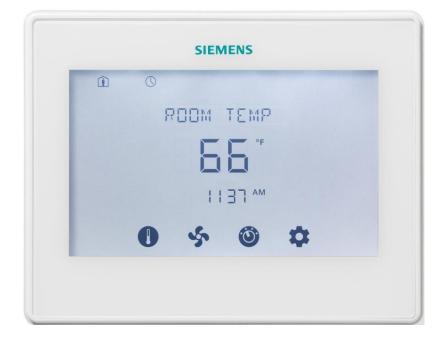
- OUT1 and OUT2 are switchable 24Vac
- OUT3 is switchable 24Vac but can be converted to dry contact by removing jumper (24V / 1A max.)
- Outputs configured via Installer Setup Menu
  - Humidification
  - Dehumidification
  - Economizer enable
  - Occupancy
  - Ventilation



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### **Configurable Outputs**

- Humidification & Dehumidification
  - Can be configured to run independently of heating / cooling relays
- Economizer Enable
  - Relay energizes when space is occupied, or there is a call for cooling.
  - Can be configured to enable economizer and energize fan relay prior to start of occupancy period
- Air Quality / Ventilation
  - When measured CO2 > setpoint, fan relay and ventilation relay are energized
  - Requires additional sensor (QPA2000)
- Occupancy
  - Relay is energized per schedule or if external sensor indicates human presence
  - Can interface with lighting systems, waterscaping, signage, etc.



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### **Configurable Inputs**



#### 4 Configurable Inputs Configure via Installer Setup Menu

Configurable Option	Purpose	Input Format				
Remote Indoor Temp	Enables thermostat to be mounted in a secure location. Onboard sensor is disabled.					
Average Indoor Temp	Enables remote temp sensor to be averaged with onboard temp sensor.	<ul> <li>10k Ω Type II thermistor</li> </ul>				
Supply/Return Temp	Enables display of supply and/or return temperatures for system troubleshooting.	• 0-10V				
Outdoor Temp	Enables display of outdoor temperature at thermostat. Also enables heat pump aux. heat.					
Remote Humidity	Enables thermostat to be mounted in a secure location. Onboard sensor is disabled.	• 0-10V (0-100%)				
Air Quality	Ventilation relay will be energized when measured CO2 exceeds setpoint.	• 0-10V (0-2000ppm)				
Occupancy	Thermostat will override schedule and go to "comfort" temperature setpoint	<ul> <li>Digital input (relay)</li> </ul>				

### **A True Commercial Thermostat**

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- Schedule profile designed for commercial buildings
  - Heating mode: warm during day / set-back at night
  - Cooling mode: cool during day / set-back at night
- Local user access can be limited
  - Schedule override time & temp can be limited or completely restricted
  - Three levels of touchscreen lockout
    - 1. Unrestricted: (Installer menu remains password protected)
    - 2. Partial: (only temp setpoint can be adjusted within set limits)
    - 3. Total Lockout: No user adjustments possible
- HVAC unit number can be displayed on home screen...



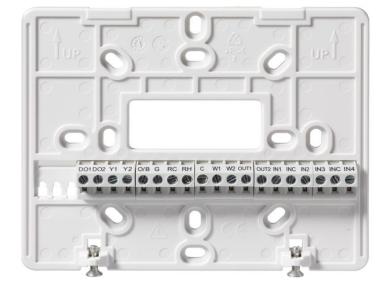
### **Easy to Install and Configure**

#### **Universal Mounting Plate**

- Fits any 2" x 4" North American electrical box
- Includes screws and anchors for mounting direct to wall
- Clearly marked terminal block attached to mounting plate
- Mounting plate has molded in UP arrow
- Thermostat secured to plate with screws
- 1/32" pins are virtually unbendable
- Same footprint as many other thermostats

#### Setup Wizard enables rapid commissioning

- Appears at initial power-up
- Walks installer through common parameters that are critical to basic system start up.



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### The RDY2000 outperforms similarly priced competitors.

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Siemens	RDY2000	3	2	3	Yes	4	1								
Honeywell	TH8321R1001	2	2(1)	2	No	Yes	No	Yes	Yes	Yes	Yes <sup>(2)</sup>	1	0		
Honeywell	T7351F2010	2	2	3	No	Yes	No	Yes	Yes	Yes	No	2	0		
Honeywell	TH9421C1004	2	2	2	No	Yes	No	Yes	Yes	Yes	Yes	2	0		
White Rodgers	1F95-1280	2	2	2	No	No	No	Yes	No	No	No	1	0		
White Rodgers	1F95-1291	2	2	2	No	Yes	No	No	Yes	Yes	No	1	0		

<sup>(1)</sup> Additional I/O module required

<sup>(2)</sup> Can control two of three devices (humidification / dehumidification / ventilation)

### **Optional Sensors for RDY2000**



Dent Number	Description
Part Number	Description
QAA2330.EWNN	Remote Wall Mounted Sensor –
	Temperature Only
QFA33SS.EWNN	Remote Wall Mounted
	Temperature & Humidity Sensor
	Duct Mounted Temperature
QAM2030.010	Sensor
	Duct Mounted Temperature &
QFM2160U	Humidity Sensor
QPA2000	Wall Mounted CO2 Sensor
	Wall Mounted Temperature +
QPA2062	Humidity + CO2 Sensor
	Duct Mounted Temperature +
QPM2162	Humidity + CO2 Sensor
QAC2030	Outdoor Air Temperature Sensor
O A D 2020	Surface Mount Pipe Temperature
QAD2030	Sensor
TBD	Occupancy Sensor*
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\*Must be capable of switching 24Vac

### The RDY2000 Advantage

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#### **Wholesalers**

- Offer a unique product that is not available in DIY stores
- Provide your customers with an alternative to "just another thermostat"
- Maximize your Siemens purchases for optimum benefits

#### **Installers**

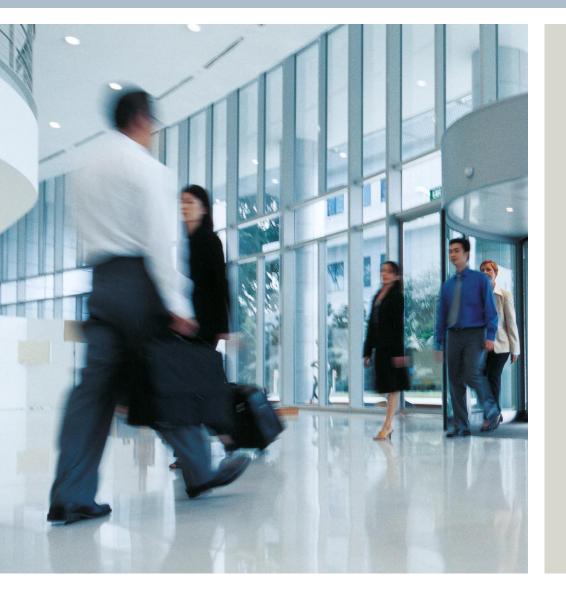
- Delight your customers with big-time HVAC control strategies in a small economical package
- Easy to install and configure
- Unparalleled flexibility to meet any HVAC challenge
- Siemens is a trusted name in the HVAC business and highly respected by end users
- Unleash your inner HVAC geek!

#### End Users

- Clean, modern appearance blends in with any décor and does not attract attention
- Commercial oriented scheduler profiles make it easy to tailor comfort to business hours
- Non-volatile memory retains schedule and set-up parameters for at least 48 hours of power interruption
- Maximize customer & employee satisfaction with optimized temperature, humidity and air quality
- Multiple options to deter theft, vandalism, and unauthorized adjustments

### RDY2000 Commercial Room Thermostat





# Thank You