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
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.
## Configurable Inputs

### 4 Configurable Inputs Configure via Installer Setup Menu

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

- 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.
How does the RDY2000 compare?

The RDY2000 outperforms similarly priced competitors.

<table>
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<tr>
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<tbody>
<tr>
<td>Siemens</td>
<td>RDY2000</td>
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<tr>
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<td>TH8321R1001</td>
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<td>2(1)</td>
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<td>Yes</td>
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<td>Yes(2)</td>
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<td>Honeywell</td>
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<tr>
<td>White Rodgers</td>
<td>1F95-1280</td>
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<tr>
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<td>Yes</td>
<td>No</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

(1) Additional I/O module required

(2) Can control two of three devices (humidification / dehumidification / ventilation)
## Optional Sensors for RDY2000

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>QAA2330.EWNN</td>
<td>Remote Wall Mounted Sensor – Temperature Only</td>
</tr>
<tr>
<td>QFA33SS.EWNN</td>
<td>Remote Wall Mounted Temperature &amp; Humidity Sensor</td>
</tr>
<tr>
<td>QAM2030.010</td>
<td>Duct Mounted Temperature Sensor</td>
</tr>
<tr>
<td>QFM2160U</td>
<td>Duct Mounted Temperature &amp; Humidity Sensor</td>
</tr>
<tr>
<td>QPA2000</td>
<td>Wall Mounted CO2 Sensor</td>
</tr>
<tr>
<td>QPA2062</td>
<td>Wall Mounted Temperature + Humidity + CO2 Sensor</td>
</tr>
<tr>
<td>QPM2162</td>
<td>Duct Mounted Temperature + Humidity + CO2 Sensor</td>
</tr>
<tr>
<td>QAC2030</td>
<td>Outdoor Air Temperature Sensor</td>
</tr>
<tr>
<td>QAD2030</td>
<td>Surface Mount Pipe Temperature Sensor</td>
</tr>
<tr>
<td>TBD</td>
<td>Occupancy Sensor*</td>
</tr>
</tbody>
</table>

*Must be capable of switching 24Vac
The RDY2000 Advantage

**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
Thank You