

# RDY2000 Room Comfort Controller

NEW!



RDY2000 Room Comfort Controller.

## Description

The Siemens Series RDY2000 Room Comfort Controller is designed for light commercial HVAC systems that utilize 24VAC control circuitry. It is compatible with forced air, hydronic, or steam systems fired by gas, oil or electricity. The thermostat can control up to 3 stages of heating and 3 stages of cooling in a conventional system and heat pumps systems with up to 2 compressors and 2 stages of auxiliary/emergency heat. The RDY2000 is capable of interfacing with remote sensors and devices to completely manage all aspects of room comfort, including temperature, humidity, and air quality.

## Hardware Features

- Compatible with conventional and heat pump applications
- Controls conventional systems with up to 3 stages of heating and 3 stages of cooling
- Controls heat pump systems with 1 or 2 compressors and up to 2 stages of auxiliary heat
- On-board temperature & humidity sensors
- Standard HVAC relay outputs
  - Compressor 1 (Y1)
  - Compressor 2 (Y2)
  - Fan (G)
- Heating 1 (W1)
- Heating 2 (W2)
- Reversing Valve (O/B)
- 3 Configurable relay outputs (configurable via installer set-up menu)
  - Humidification
  - De-humidification
  - Economizer
  - Occupancy
  - ERV/HRV activation
- Configurable input #3 is a dry contact – can be powered with 24VAC via jumper
- 4 Configurable inputs (configurable via installer set-up menu)
  - Remote temperature sensor
    - Outdoor temperature
    - Supply / return temperature(s)
    - Indoor temperature (remote or averaging)
  - Remote humidity sensor
  - CO2 sensor
  - Occupancy sensor

D-3

Thermostats

## Control Features

- Set-up Wizard enables rapid system configuration
- Fully programmable scheduling function
  - 5+2 / 5+1+1 / 7-day capability
  - 2 or 4 periods per day
- Multiple options for determining occupancy
  - Scheduled occupancy
  - CO2 level vs. set point\*
  - Occupancy / motion detection\*
- Real time clock retains time & date for up to 48 hours upon loss of input power
- System configuration data is stored indefinitely upon loss of input power
- Interlocks and timers specifically designed for equipment protection
- Password protected installer set-up menu deters unauthorized changes
- Programmable fan enables fresh air circulation when not in heating/cooling mode
- Selectable lockout levels to minimize tampering with setpoints and schedule
- Programmable service reminders for humidifier pad, UV lamp, and air filter

## General Features

- Sleek, unobtrusive design with backlit 5" LCD resistive touch screen
- Separable backplate with wiring terminals and mounting holes configured to match most conduit box configurations (screws and anchors included for drywall mounting).
- Designed for horizontal layout
  - 5-1/2"W x 4-1/3"H x 1-1/6"D
  - 11.5 oz.

\*Requires purchase of external sensor

## RDY2000 Product Ordering

Description	Part No.
Room Comfort Controller	RDY2000