T9100 High-Resolution Color Touch Screen Digital Room Thermostat with Integral Skyport™ Cloud Services Wi-Fi

Description

The T9100 High-Resolution Color Touch Screen Digital Room Thermostat is a multifunctional device that offers a simple-to-use color touch screen user interface. This stand-alone digital room thermostat, with integral Skyport™ Cloud Services Wi-Fi, is designed to program and configure temperature control of a wide range of heating and cooling equipment in commercial applications. An integral humidity sensor also enables the device to control humidification and dehumidification in addition to room temperature.

The high-resolution color touch screen on the room thermostat doubles as a digital picture frame. This at-a-glance, full-color touch screen allows the user to easily see the room temperature and heating or cooling status. The aesthetically-pleasing touch screen enhances any decor using a number of preset themes. The user can also load up to 100 personalized photos as custom background wallpaper, or configure the photos as a slide show.

The T9100 includes an SD memory card input that reduces configuration time by making inputting and exporting data between digital room thermostats quick and easy. A ColorDisplay Assistant application can be downloaded at no charge from the Johnson Controls® Thermostats homepage to upload photos, configure installation settings, program a time period schedule, and update the digital room thermostat firmware.

Integral runtime graphics available on the T9100 provide energy usage information at the touch of a finger, allowing the user to evaluate energy conservation options. A password protection capability enforces setpoint energy policies by preventing tampering with the digital room thermostat settings in public spaces. Multilingual display options provide a user interface in English, French, and Spanish.

Refer to the *T9100 Commercial Digital Thermostat with Humidity Control and Integral Skyport Cloud Services Wi-Fi Owner's Manual and Installation Instructions (LIT-12012271)* for important commercial product application information.

Features

- **Integral Skyport Cloud Services Wi-Fi**—Provides facility managers and end users with remote access to the digital room thermostat.
- **Seven-Day Programmable Occupancy Schedule with Up to Three Occupied Periods Each Day**—Reduces operating expenses by controlling the room based on occupant schedules.
- **Local Equipment Runtime Trending**—Provides easy access to energy usage information; shows how much energy was used to heat and/or cool over a 7-day period.

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- **Password Protection Capability**—Enforces setpoint energy policies by preventing tampering with the digital room thermostat settings in public spaces.
- **Multilingual Display Options**—Provide a user interface in English, French, and Spanish.
- **SD Memory Card Input**—Reduces configuration time by making inputting and exporting data between digital room thermostats quick and easy.
- **Configurable Alerts**—Send messages to the digital room thermostat when certain conditions occur, such as when the room temperature exceeds a user-specified value.

Repair Information

If the T9100 High-Resolution Color Touch Screen Digital Room Thermostat fails to operate within its specifications, replace the unit. For a replacement digital room thermostat, contact the nearest Johnson Controls representative.

Selection Chart

Product Code Number	Description
T9100	Commercial high-resolution color touch screen digital room thermostat with humidity control and integral Skyport Cloud Services Wi-Fi
ACC-WALLPLT	Plastic backplate for surface mounting the T9100 High-Resolution Color Touch Screen Digital Room Thermostat
ACC-RSEN	Remote temperature sensor for the T9100 High-Resolution Color Touch Screen Digital Room Thermostat
ACC-RSEN-OVR	Remote temperature sensor with manual override for the T9100 High-Resolution Color Touch Screen Digital Room Thermostat

Technical Specifications

T9100 High-Resolution Color Touch Screen Digital Room Thermostat with Integral Skyport Cloud Services Wi-Fi		
Power Requirements		20 to 30 VAC, 50/60 Hz, 4.8 VA at 24 V nominal
Output Rating		W1, W2, W3 = 0.2 A maximum, 0.01 A minimum, 3 A inrush, 20 to 30 VAC; Y1, Y2, G = 0.4 A maximum, 0.01 A minimum, 3 A inrush, 20 to 30 VAC
Local Temperature Sensor Type		10k ohm negative temperature coefficient (NTC) thermistor at 77°F (25°C)
Remote Temperature Sensor Type		10k ohm NTC thermistor at 77°F (25°C)
Wire Size		16 AWG (100 ft [30.5 m] maximum) to 24 AWG (36 ft [11 m] maximum)
Temperature Adjustment Range		35 to 99°F (2 to 37°C)
Accuracy		35 to 65°F ±3F° (2 to 18°C ±1.8C°), greater than 65 to less than 80°F ±2F° (18 to less than 27°C ±1.2C°); 80 to 99°F ±3F° (27 to 37°C ±1.8C°), greater than 99 to 104°F ±5F° (37 to 40°C ±3C°)
Humidity Control		±10% RH from 30 to 70% RH, 50 to 90°F (10 to 32°C)
Deadband		Adjustable 1 to 6 degrees first stage; Adjustable 0 to 10 degrees second and third stages
Ambient Conditions	**Operating**	35 to 104°F (2 to 40°C), 5 to 95% RH noncondensing, 86°F (30°C) maximum dew point
	Storage	-22 to 122°F (-30 to 50°C), 5 to 95% RH noncondensing, 86°F (30°C) maximum dew point
Compliance		UL/cUL Listed, File E107041, NEC Class 2
Dimensions		4 in. H x 5-3/16 in. W x 1-3/32 D (102 mm H x 132 mm W x 28 mm D)
Shipping Weight		0.75 lb (0.34 kg)