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Wireless Thermostat (WTS10)

Daintree Wireless Solution

The **Wireless Thermostat (WTS10)** is part of the Daintree product portfolio, an open networked wireless controls solution for lighting and building control, monitoring, and optimization. Daintree controls provide a highly scalable solution to address evolving environmental regulations and transform spaces into intelligent environments for buildings of all sizes.

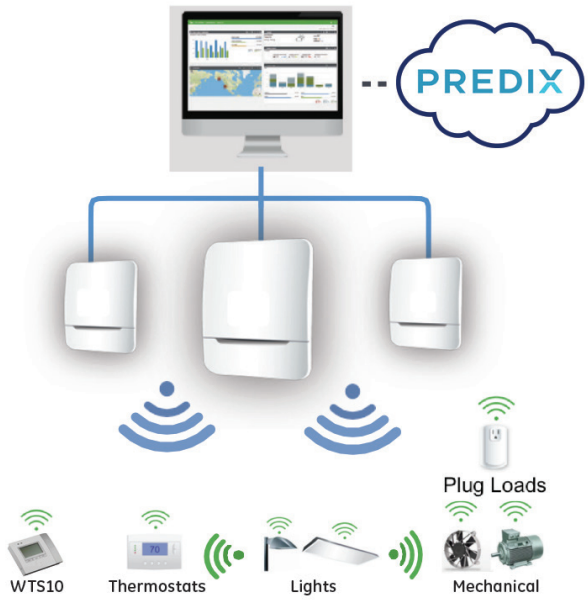
Consisting of three components, Daintree includes sensors and controls at the edge, an open API cloud platform, and software apps to help facility managers make decisions based on how space and assets are actually being used using a data-rich sensor network. Benefits of adding wireless Daintree controls include:

- Up to 50% Energy savings across lighting, HVAC, plugload, fans and more
- Visibility into energy usage, trends and insights to optimize operations
- Automated demand response, superior comfort and lower maintenance expense
- Regulatory compliance with Title 24; 2005 EnergyPolicy Act; 2007 Energy Independence and Security Act; 2009 DOE Regulations.

Daintree Wireless Solutions Product Overview

The WTS10 is a wireless commercial programmable thermostat that can connect to any single or multi-stage conventional or heat pump HVAC system, providing automatic temperature control. As part of the ControlScope system and using industry standard ZigBee wireless communications, the WTS10 can be centrally managed and programmed from any location using the ControlScope Manager (CSM) web application, eliminating the need for on-site, manual thermostat adjustment.

- Typically used in buildings under 50,000 square feet
  - Small box retail
  - Food service
  - Convenience store
  - Small/branch/field commercial office
- For use with single zone packaged rooftop units
- Remote thermostat configuration and scheduling
- Built-in temperature sensor or wireless remote temperature sensor capable
- Online monitoring of thermostat and temperature status
- Over-the-air (OTA) firmware upgrade support



Daintree Network Architecture

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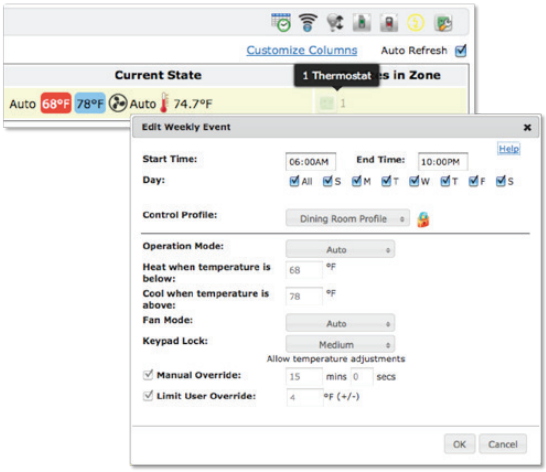
ControlScope Manager Integration

The WTS10 Wireless Thermostat is supported by the ControlScope Manager web application, providing complete online access to manage thermostat settings across one or multiple facilities.

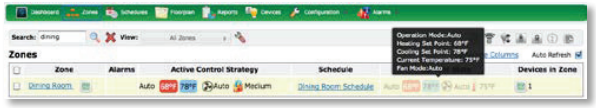
Control thermostat settings remotely, such as:

- Heating and cooling set points
- Operation mode
- Fan mode
- Keypad multi-level lockout

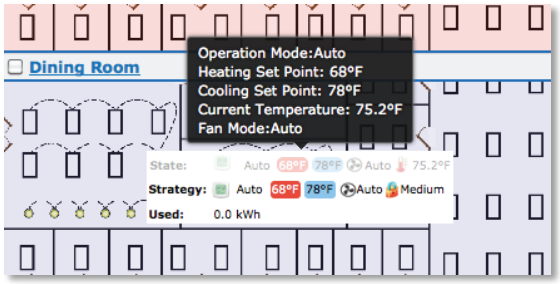


Remotely program the thermostat schedule:

Monitor the thermostat state in the Zones view:

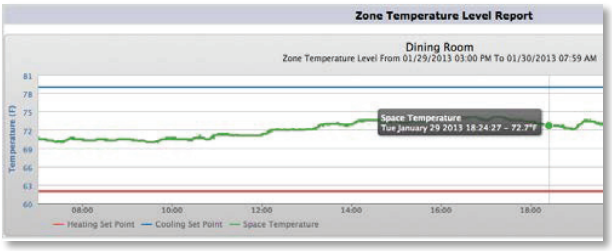


Monitor the thermostat state in the Floorplan view:



Generate reports providing trending data that includes:

- Current temperature
- Temperature cooling and heating set points
- Occupancy/vacancy periods
- Heating/cooling/fan state changes



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Warranty

Current offers a limited Warranty across its Daintree Portfolio. The table below summarizes the Warranty terms. For additional information, please review the Limited Warranty Document on the Daintree Homepage.

Component	Warranty Period	Coverage Details
Daintree Software	1 year (on-premise installed Software) Subscription term (SaaS) 3 years	GE warrants that as long as all applicable fees due are paid, Daintree Software will substantially conform to the applicable published documentation and published specifications for the Warranty Period.
System Controller	3 years	100% parts coverage. Warranty for non-Daintree software (such as operating system software) is provided by the respective software GEGE; GE makes no warranty with respect to no-Daintree software.
WACs	5 years	100% parts coverage
Wireless Adapters	5 years	100% parts coverage
Wireless Devices	5 years	100% parts coverage, excluding batteries
Wireless Thermostats	2 years	100% parts coverage

Product Code	Product Description
WTS10	Wireless Thermostat

Specifications

Dimensions	136mm (L) x 106mm (H) x 27mm (D)
Indicators	White LCD backlight: 5 sec after SYS/FAN key press, 30 sec after other key press LEDs (Orange, Multi-color): Network status, Error
Time Display	12 hours AM/PM with day and date display
System Mode	OFF – HEAT – COOL – AUTO – EM HEAT
Fan Mode	AUTO – ON
Keypad Lockout	Unlocked Lockout level 1: locks all except setpoints, system mode and fan mode Lockout level 2: locks all except setpoints Fully locked
Temperature sensor	Built-in or Remote (wireless connectivity)
Temperature Measurement	Fahrenheit or Celsius Display range: 14°F – 99°F (5°C – 37°C) Display resolution: 1°F (1°C) Setting range: 45°F – 90°F (7.0°C – 32.0°C) Setting resolution: 1°F (0.5°C) Accuracy: +/- 1°F @ 75°F
Control	Switching differential 1st stage: User selectable, 0.5°F, 1.0°F, 2.0°F (0.25°C, 0.5°C, 1.0°C), Default = 0.5°F (0.25°C) Switching differential 2nd stage: Fixed 2°F (1°C) Switching differential 3rd stage: Fixed 2°F (1°C) Operational differential: Less than +/- 2°F Control timing: Compressor short cycle timer – 5 min Residual cooling fan delay: User selectable, 0 (disabled), 30, 60, 90 sec, Default = 60 sec
Switching Circuit	Control Switches: Latching type relay, 2A max load per relay Relays: 1st stage/Aux heating control 2nd stage/Emergency heating control Fan Control Heating/Cooling O/B control, 3rd stage conventional heat control 1st stage cooling control / 1st stage heat-pump heating control 2nd stage cooling control / 2nd stage heat-pump heating control
Operating Environment	32°F to +113°F (0°C – 45°C) Indoor use only
Radio Properties	2.4Ghz +20dBm transmit power
Compliance	ETL listed FCC ID: D12CT-EM2606, IC ID: 1700A-CT-EM2606
Power Supply	18 – 30VAC, 60Hz
Warranty	2 Years