WT-100 Wireless Thermostat

User Guide

Congratulations on receiving your new WT-100 Wireless Thermostat!

Your WT-100 thermostat works with your EC-100 Energy Controller to help manage your home's energy use.

About your WT-100 Thermostat

Your WT-100 thermostat is designed to display the current temperature, mode (Heat, Cool, Fan, or Off), and program (Wake, Leave, Return, or Sleep). You may also use the WT-100 to view or change your current set temperature, or to change the mode.

Your EC-100 Energy Controller has all the features of the WT-100 thermostat. The EC-100 Energy Controller should be used to make changes to the thermostat program or current set temperature, set a vacation hold, and view electricity usage and billing data.

Contents

Overview

Battery—The battery icon will be displayed when the battery is low and needs replacing. A low-battery notification will also be displayed on the EC-100 Energy Controller.

Connectivity-Shows that the WT-100 thermostat is communicating with the EC-100 Energy Controller.

Mode—Heat, Cool, Fan or Off

Program Indicator—Shows which pre-programmed time period is in effect.
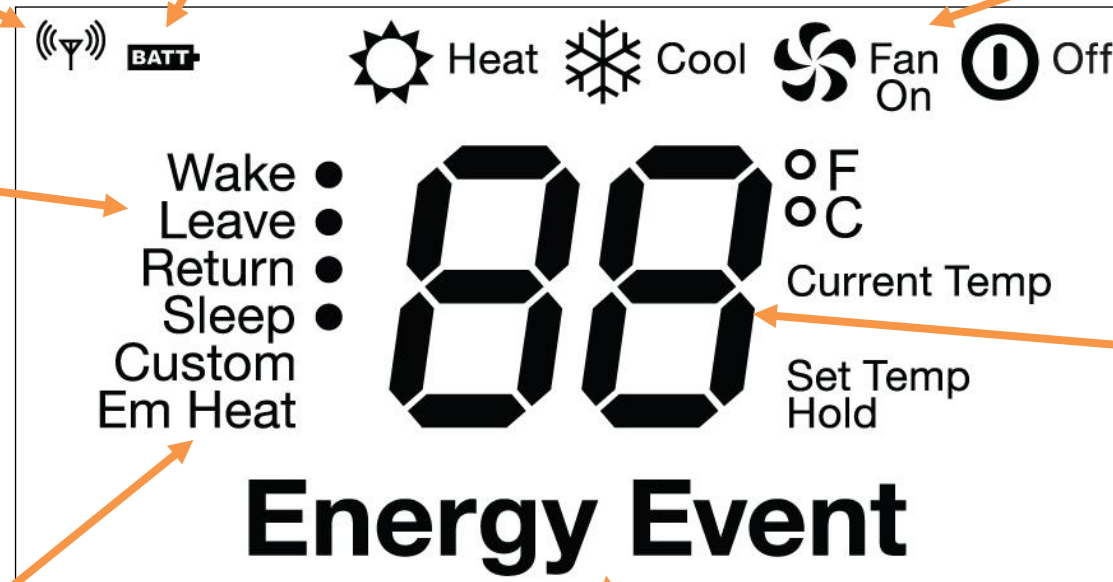
Current Temp/Set Temp—Your home's current temperature is displayed here.

To see the set temperature, press either the Up or Down button once to turn on the backlight and once more to view the set temperature.

Press a third time to adjust the set temperature by one degree.

Emergency Heat—Em Heat is displayed when emergency (supllementatl) heat is on.

Energy Event—This message is displayed during a utility-driven energy savings event.

Terms

EC-100: Your EC-100 Energy Controller is table or counter top display that lets you view your home's energy usage data and control your WT-100 thermostat.

WT-100: Your WT-100 thermostat communicates with the heating and air-conditioning (HVAC) systems in your home.

Set Temperature: Your set temperature is your desired temperature. You can program your desired temperatures for different times of day using the programming feature on the EC-100 Energy Controller or manually adjust your set temperature on either the EC-100 Energy Controller or WT-100 thermostat.

Hold: When you manually adjust your set temperature, your selection will automatically hold, or maintain your new set temperature, for two hours. All holds are two hours except for Vacation hold, which will hold your Vacation set temperature until you cancel the Vacation hold.

Mode: The WT-100 can operate in four modes (Heat, Cool, Fan, and Off). In both Heat and Cool modes, the fan will run automatically when needed. In Fan mode, the fan will run continuously without using your heating or air-conditioning.

Energy Event: An Energy Savings Event is a utility-driven demand response event which leads to a temporary adjustment of your thermostat set temperature to reduce overall electricity consumption during peak periods of energy consumption.

Viewing or Changing the Set Temperature

Your home's current temperature is displayed on the WT-100 thermostat.

Press either the Up or Down button twice (1st press turns on backlight) to temporarily display the set temperature in place of the current, actual temperature.

Press the Up or Down button again to change the set temperature. Each press will change the temperature by one degree.

Your new set temperature will be maintained for two hours.

Changing the Mode

The Mode icon indicates which system is current running: Heat, Cool, Fan or Off. Pressing the Mode/Off button will cycle through the modes. To change the mode, press the Mode/Off button until your desired Mode is shown.

☼	Heat - Thermostat is controlling the heater, Fan is on Auto and the fan icon is displayed only when the fan is running.	**Fan On**	Fan - The fan is on and circulating air continuously.
☼ **Fan On**	Heat + Fan - Thermostat is controlling the heater, Fan is on and circulating air continuously.	**Em Heat**	Emergency Heat – When supplemental heat is needed, the backup heat source will automatically run and "Em Heat" will be displayed.
❄	Cool - Thermostat is controlling the air-conditioning, Fan is on Auto and the fan icon is displayed only when the fan is running.	⏻	Off – All systems Off (Heat, Cool and Fan).
❄ **Fan On**	Cool + Fun - Thermostat is controlling the air-conditioning, Fan is on and circulating air continuously.		

Programming your Thermostat

Your thermostat is already programmed with Energy Star settings for schedule and temperatures. To customize your Wake, Leave, Return, and Sleep settings, use your EC-100 Energy Controller (see EC-100 User Guide).

Energy Events

During an Energy Savings Event, the utility company controls your thermostat to reduce overall electricity consumption. There are two types of Energy Savings Events: voluntary and mandatory. All voluntary Energy Events may be overridden by adjusting the set temperatures on either your EC-100 or WT-100 (pressing the Up/Down buttons). Your WT-100 will display "Energy Event" message at the start of an Energy Savings Event.

Regulatory Compliance

FCC/Industry Canada
FCC ID: R33H1/Canadian ID: 7848A-H1
This device complies with Part 15 of the FCC Rules Sub-Part A and B and with Canada ICES-003 and RSS-Gen. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
• Reorient or relocate the receiving antenna.
•Increase the separation between the equipment and receiver.
 • Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio/TV technician for help.

Australian/New Zealand Compliance
This product has been tested to the requirement of, and shown to be in compliance with, the following standard

N14161
Z703

• AS/NZS 4268:2003 + A1:2005 & A2:2006.

IMPORTANT! Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Recycling

For information on recycling, please go to www.control4.com/recycling

Product Specifications

BUTTONS:	3		Indoor: 100' Outdoor: 300'
POWER:	Power consumption: xxW Four AA batteries		
DISPLAY:	Size: 3.25" viewable Type: TN Transreflective "black and white" Backlight: White	**PHYSICAL:**	Physical dimensions (approximate W x H x D): 5" x 3.94" x .85" Weight (approximate without batteries): .4lbs
SUPPORTED SYSTEMS:	Single transformer, single stage, 3, 4 and 5 wire HVAC systems	**ENVIRONMENTAL**	**Operational**
FUELS:	Natural Gas and Electric		32°F -104° F (0°C - 40° C) **Humidity**
SUPPORTED MODES:	Heat, Cool, Fan		5% - 95% Non-Condensing **Storage**
RELAYS:	Five		32° F -104° F (0° C - 40° C)
TEMPERATURE ACCURACY:	+/- 1°	**APPROVALS:**	FCC, CE, Ctick OpenHAN compliant when used with EC-100
PROGRAMMABLE SCHEDULE:	7 day, 6 event per day		
NETWORK:	**ZigBee:** Standards: IEEE 802.15.4 (HA) **Wireless performance**		