

## CT101 Communicating Touch Screen Thermostat



- Ultra Slim Form Factor
- Two Year Battery Life with Radio
- 4 Stage Heat
- Bright Display with Touch Screen
- 7 Day Programmable

## Technical Specifications

### Physical - Operational Characteristics

|                                      |   |
|--------------------------------------|---|
| Height                               | 5.15" (131 mm)  |
| Width                                | 5.9" (150 mm)   |
| Thickness                            | .7" (185 mm)  |
| Operating Temperature                | 32°F ~ 122°F (0°C ~ 50°C)   |
| Storage Temperature                  | -4°F ~ 158°F (-20°C ~ 70°C)   |
| Shock (Non-Operating)                | 10 free drops (1 corner, 3 edges plus 6 faces) per ISTA-1A            |
| Vibration                            | 14,200 circular impacts per ISTA-1A                                   |
| Display                              | 2.9" x 1.5" LCD with White Backlight (73x38mm)                        |
| Touch Screen                         | Yes   |
| Setpoint Accuracy                    | 1° F (0.5°C)  |
| Ambient Temperature Display Accuracy | 0.5° F (0.5°C)  |
| Remote Control                       | Yes via Z-Wave  |
| Power Requirements                   | C-Wire Input: AC: 12V~25V AC or DC<br>Battery Power: AA Battery 4pcs. |

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## Compatible Systems

|                           |                |
|---------------------------|----------------|
| Heat (fossil or electric) | Up to 2 Stages |
| Cool                      | Up to 2 Stages |
| Heat Pump w/ Aux          | Up to 4 Stages |
| AUX Heat                  | Up to 2 Stages |
| Hybrid (Fossil Aux Heat)  | Yes            |
| Forced Air Zoned Heat     | Up to 2 Stages |
| Forced Air Zoned Cool     | Up to 2 Stages |
| 2 Wire Hydro Valves       | Yes            |
| 3 Wire Hydro Valves       | Yes            |
| Millivolt Heat            | Yes            |

## Reliability

|                                   |                     |
|-----------------------------------|---------------------|
| Operational Lifetime              | 15 years            |
| Relays                            | 250,000 cycles      |
| Compressor                        | 8,000/year          |
| Heating                           | 8,000/year          |
| Fan                               | 16,000/year         |
| Contact Rating                    | (@ 24VAC)           |
| G, W, W2, Y, Y2, O, B, A, RC, RH  | 2A carry, 5 A surge |
| Power-on Time                     | Continuous          |
| Immunity to Voltage Dips          | 70% 10ms, 40% 50ms  |
| Electrostatic Discharge (Contact) | 8KV                 |
| Electrostatic Discharge (Air)     | 20KV                |

## Z-Wave Radio Specifications

|                               |                        |
|-------------------------------|------------------------|
| Integrated Sigma Z-Wave Radio |                        |
| Frequency (US)                | 908.42 MHz             |
| Generic Device Type           | Thermostat             |
| Specific Device Type          | Thermostat General v2  |
| Node Type (C-Wire)            | Enhanced Routing Slave |
| Node Type (Battery)           | FLiRS                  |
| Z-Wave API                    | v5.03                  |
| Z-Wave Chipset                | ZM3102N                |

## Installer Setup Options

|   |
|---|
| HVAC Fast Setup Codes                     |
| Swing from .5°F ~ 2°F                     |
| Multiple Recovery Settings (FAST/ECON)    |
| Differential Temperature Setpoint Control |
| Filter Replacement Indicator              |
| Radio Network Setup                       |
| Humidity Sensor                           |

## Homeowner Setup Options

|   |
|---|
| Simple Screen Mode with Limited UI  |
| 4 Period Program  |
| Program Schedule (EPA default)  |
| Holiday Program   |
| Hold  |
| Remote HOME / AWAY Setpoints  |
| Radio Display   |
| Radio NETWORK Setup   |
| Fan On/Auto   |
| EMER Select (Aux Heat only)   |
| Lock - multi-level  |
| Calibrate Feature   |
| Energy Price Display for Price, Consumption and Instantaneous Consumption |
| Grid Status Indicators (Red, Yellow, Green)                               |
| True Auto   |