

CT100 Communicating Touch Screen Thermostat



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

Technical Specifications

Physical - Operational Characteristics

Height	4.5" (115 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~40V DC Input: 12V~40V Battery Power: AA Battery 4pcs.

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Compatible Systems

Heat (Fossil or Electric)	Up to 4 Stages (2)
Cool	Up to 2 Stages
Heat Pump	Up to 2 Stages
Electric 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,W3,Y,Y2,DH,H,EX,O/B	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

Radio Display
Radio Network Setup
Fan On/Auto
EMER Select (Aux Heat only)
Lock
Calibrate Feature
Energy Price Display for Price, Consumption and Instantaneous Consumption
Grid Status Indicators (Red, Yellow, Green)