

CT32 Communicating Touch Screen Thermostat



- Designed for Battery Operation
- 2 Stage Heat - 2 Stage Cool
- Firmware Upgradeable
- Bright Display with Touch Screen

Technical Specifications

Physical - Operational Characteristics

Height	4.0" (102 mm)
Width	5.5" (141 mm)
Depth	1.3" (33 mm)
Operating Temperature	28°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 (74x40mm)
Touch Screen	Yes
Setpoint Accuracy	1° F (0.5°C)
Ambient Temperature Display Accuracy	0.5° F (0.5°C)
Remote Control	Yes via USNAP module
Power Requirements	C-Wire Input: 12V~25V AC or DC Battery Power: AA Battery 4pcs.

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Compatible Systems

Heat	Up to 2 Stages
Cool	Up to 2 Stages
Heat Pump	Up to 2 Stages
Electric Aux Heat	Up to 2 Stages
Hybrid (Fossil Aux Heat)	Up to 2 Stages
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	2A carry, 5A surge @ 24VAC
C, B, O, W, W2, AUX, Aux2, Y, Y2, RH, RC, G, A	
Power-on Time	Continuous
Immunity to Voltage Dips	70% 10ms, 40% 50ms
Electrostatic Discharge (Contact)	8KV
Electrostatic Discharge (Air)	20KV

Z-Wave Radio Specifications

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 SDK	v6.51
Z-Wave Chipset	ZM5202

ZigBee Radio Specifications

Profiles	Home Automation, Smart Energy
Output Power	20.45 dBm
Receive Sensitivity	-97.56 dBm
Over-the-Air Upgradeable	Yes

Thermostat Firmware

Over-the-Air Upgradeable	Yes (per system)
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Installer/MSO Setup Options

HVAC Fast Setup Codes
Swing from .5°F ~ 4°F
Multiple Recovery Settings (FAST/ECON)
Differential Temperature Setpoint Control
Filter Replacement Indicator
Multi-Purpose LED Indicators (Red, Yellow, Green)
Radio Network Setup

Homeowner Setup Options

Simple Screen Mode with Limited UI
4 Period Program x 7 Day
Program Schedule (EPA recommendations)
Holiday Program (4 period)
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
True Auto

