

CRISTAL

Stand alone or communicating thermostat
Bacnet MSTP

Description

The Cristal Controls's CCTHV-407 is a thermostat that operates in standalone mode and also has an RS-485 communication port that supports various protocols like BACnet MS/TP.

In standalone mode, the thermostat operates as a standard electronic thermostat (modulation of a 24 VAC output according to ambient temperature). Different algorithms modified to suit specific needs can be programmed into the CCTHV-407, which makes a thermostat that adapts to all kinds of situations.

Features

- 4 dry contact outputs
- 2 triac outputs 24VAC
- 1 analog output 0-10 VDC

- 2 dry contact inputs
- 1 analog inputs 0-10 VDC
- 1 remote sensor input 10K

- 24 VAC low voltage supply
- RS-485 network communication
- Backlighting of LCD display



CCTHV-407 Thermostat

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Models

<i>Model number</i>	<i>Description</i>
CCTHV-407-BAC	Thermostat supporting the BACnet MS/TP communication protocol
CCTHV-407-RS485	Thermostat supporting a proprietary communication protocol for integration with a LON interface (Cristal Controls model CCTI-RS485)
CCTHV-407-NC	Thermostat without communication
CCTHV-407-A	Thermostat without display

Technical specifications

Supply

- 18 – 24 VAC
- Consumption : 45mA typical, 80mA max.

Outputs

- 4 X dry contact type, 1A to 24 VAC
- 2 X triac type (500mA max., fuse limited)
- 1 X analog type 0–10 VDC (5mA max., fuse limited)

Inputs

- 2 X dry contact type (1 shared common)
- 1 X analog type 0–10 VDC (30K impedance)
- 1 X temperature input for 10K (WS-100 of Cristal Controls)
- 1 X 0–10VDC input configurable to wide temperature reading ranges (0°C to 100°C or –50°C to 50°C).

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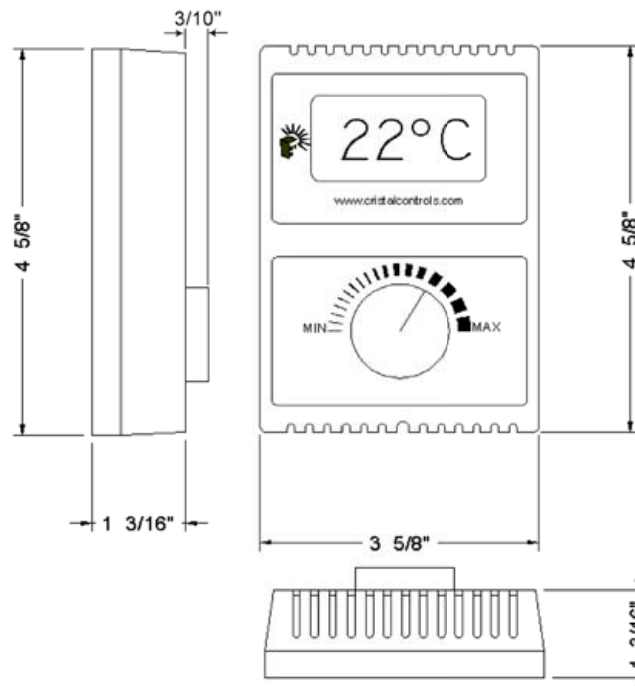
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Environnement

- Operating temperature: 0°C to 40°C (32°F to 104°F)
- 0% to 95% RH noncondensing
- Storing temperature: -40°C to 85°C (-40°F to 185°F)
- Temperature reading's resolution: +/- 0,1°C (+/-0,2°F)
- Temperature setpoint's adjustable range: 15°C to 30°C (59°F to 86°F)

Dimensions

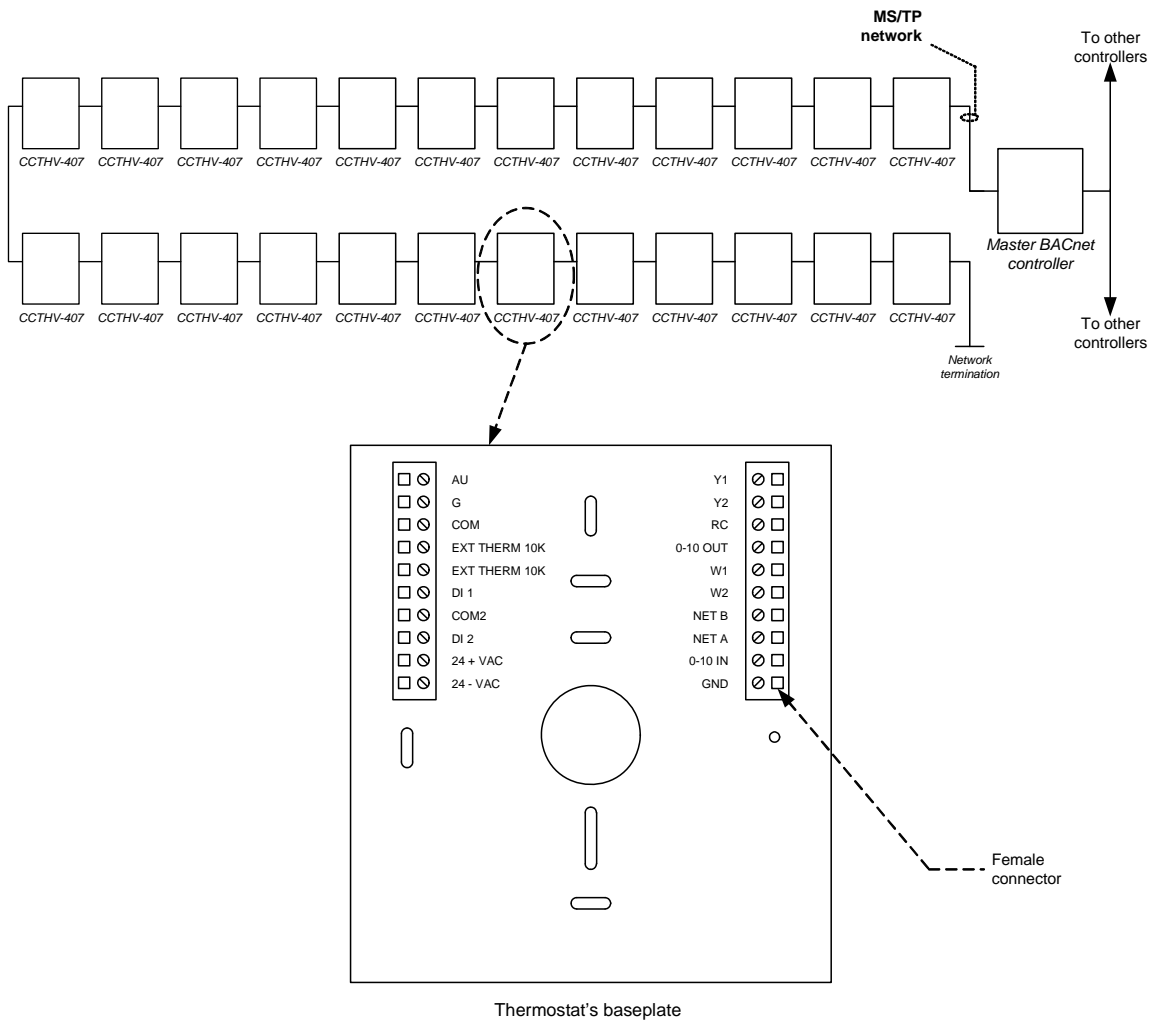


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Typical installation BACnet network (model CCTHV-407-BAC)



NOTE : Typical installation of a CCTHV-407-BAC thermostats' network (maximum of 31 per subnetwork) connected to a master BACnet controller.