

Thermostat

CCTHV-407



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Description

Cristal Controls' CCTHV-407 is a thermostat that operates in stand-alone mode and comes equipped with an RS-485 communication port that supports various protocols, such as BACnet MSTP.

In stand-alone mode, the thermostat operates as a standard electronic thermostat (modulation of a 24 VAC output according to ambient temperature). Different algorithms modified to address specific needs can be programmed into the CCTHV-407, resulting in a thermostat that adapts to all manner of temperature fluctuations.

Features

- ▶ 4 dry contact outputs
- ▶ 2 triac outputs (24 VAC)
- ▶ 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

Thermostat**CCTHV-407****Models**

Model number	Description
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 capacity
CCTHV-407-A	Thermostat without display

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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 remote sensor (Dale curve #1, ATP curve Z, BAPI curve #2, Mamac curve #12, Greystone curve #2)

Environment

- ▶ Operating temperature: 0° C to 40° C (32° F to 104° F)
- ▶ 0% to 95% RH non-condensing
- ▶ Storing temperature: -40° C to 85° C (-40° F to 185° F)
- ▶ Temperature reading's resolution: +/- 0.1° C (+/- 0.2° F)
- ▶ Temperature set-point's adjustable range: 15° C to 30° C (59° F to 86° F)

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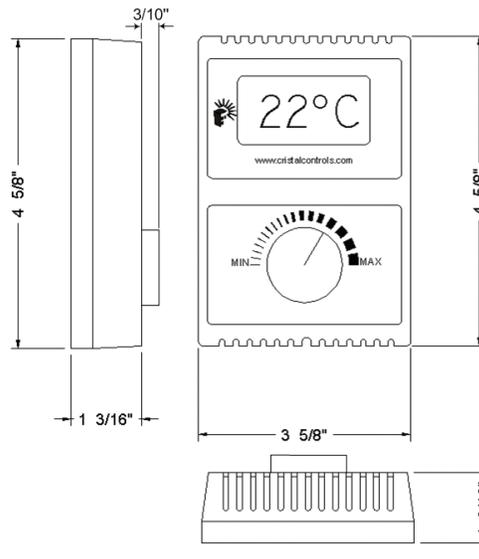
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Dimensions

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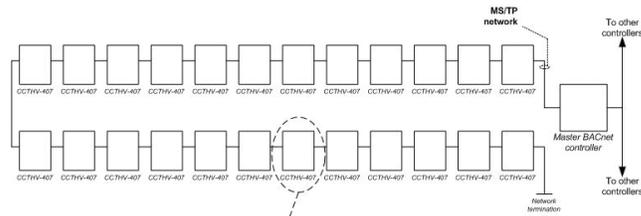


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Typical Installation of BACnet Network (model CCTHV-407-BAC)

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



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