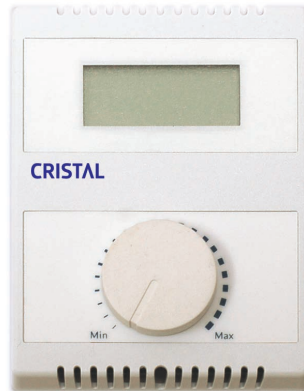


## Thermostat

## CCTHV-407 option LS-2010



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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 option LS-2010**

**Models**

Model number	Description
CCTHV-407	24Vac Thermostat, 4 inputs / 7 outputs, BACnet MSTP
CCTHV-303	24 Vac Thermostat 3 inputs (1x Contact/1x 0-10 Vdc/10K) 3 outputs (2 pulses/1x contact) MSTP
CCTHV-102	24 Vac Thermostat 1 input (1x Contact) 2 outputs (1 pulse/1x contact) MSTP

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**Technical Specifications**

**Supply**

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

**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)

**Outputs**

- ▶ 4 X dry type 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)

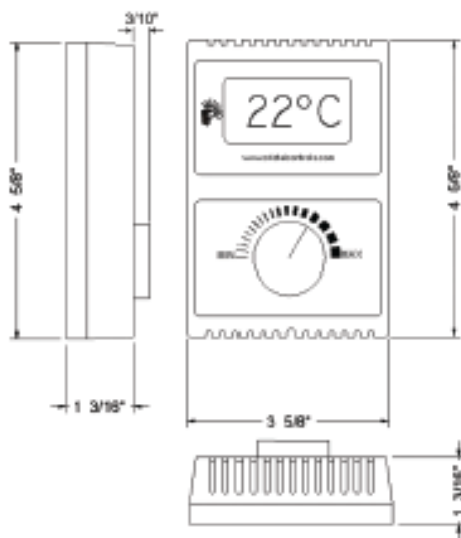
**Environnement**

- ▶ 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)

Thermostat

CCTHV-407

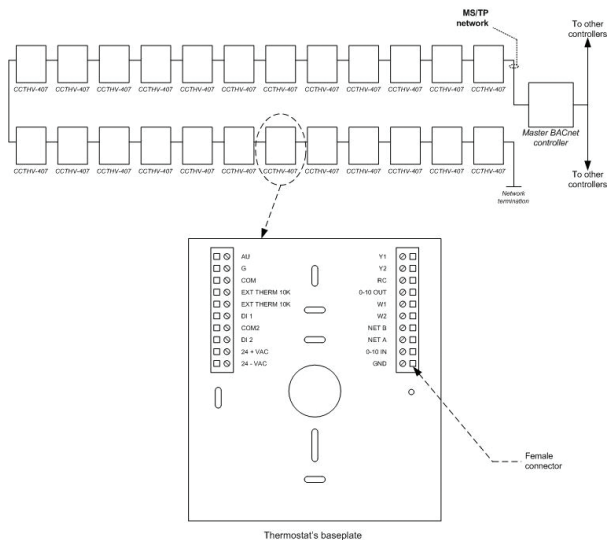
Dimensions



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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.



**Non communicating thermostats**

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Model number	Description
CCTHV-100-B	Blind Thermostat 1 pulse output
CCTHV-100-D	LCD display 1 x pulse output
CCTHDV-100 V,2	LCD display, 1 pulse or On-Off output, 1 x schedule input
CCTHDV-100 V-3,0	V-3,0 LCD display 1 x 0-10 vdc output