

DIN-THSTAT

Heating, Cooling, and Relative Humidity Thermostat, DIN Rail Mount



- Works with Crestron® remote temperature sensors (sold separately)
- Operates as part of a complete Crestron automation system (sold separately)
- Onboard controls for system setup and testing
- System integration via Cresnet® wired communications
- Cresnet powered (24VDC)
- Backlit LCD display
- Front panel controls for setup, temperature, and humidity adjustments
- 9M wide DIN rail mountable

The Crestron® [DIN-THSTAT](#) is a versatile heating, cooling and relative-humidity thermostat that provides control of radiant floor heat, forced air, and heat pump HVAC systems. DIN rail mounting allows for installation in an equipment cabinet, keeping the living area free from a wall-mounted thermostat. Small, unobtrusive remote temperature and humidity sensors gather the environmental conditions from the room and transmit the data to the DIN-THSTAT.

A Crestron control system connection allows temperature adjustments from virtually anywhere by using a Crestron touch screen, handheld remote, mobile app, or computer.

Remote Sensors

The [CHV-RTS](#) and [CHV-RTHS](#) (both sold separately) remote sensors provide indoor temperature and humidity data so that the DIN-THSTAT can be installed out of view. The [CHV-RSS](#) (sold separately) outdoor climate and floor temperature sensor enables outdoor low-temperature compensation to prevent condensation on windows during cold weather. The DIN-THSTAT accepts up to three temperature sensors. Each sensor connects via a single twisted pair wire.

Auxiliary Ports

Auxiliary ports allow state sensing from HVAC equipment and interfacing with additional HVAC devices.

DIN Rail Mounting

The DIN-THSTAT snaps onto a standard 35 mm DIN rail for installation in a wall mount enclosure (Crestron DIN-EN series or similar, sold separately) or on a wall panel. The DIN-THSTAT is designed to mount in a DIN-EN-2X18-HC-OPEN, DIN-EN-3X18-HC-OPEN, or DIN-EN-6X18-HC-OPEN for an attractive centralized mounting solution. The hinged cover provides easy access to equipment wiring while openings in the cover provide access to the DIN modules through the cover.

Cresnet® Wired Communications

The DIN-THSTAT communicates with a Crestron [control system](#) via the Cresnet control network. A pair of Cresnet ports is provided on the DIN-THSTAT to allow easy daisy-chaining of several DIN-THSTAT or Crestron DIN rail devices.

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Specifications

Measurement Range

Indoor Temperature	32° to 110°F (0° to 43°C); Provided by remote temperature sensor
Outdoor Temperature	-40° to 170°F (-40° to 77°C); Provided by remote temperature sensor

NOTE: Outdoor temperature measurement is -30° to 120°F (-34° to 49°C) if thermistor sensors are used.

Temperature Tolerance	±1°F (±0.5°C)
Humidity	0% to 100% RH; Provided by remote temperature sensor
Humidity Tolerance	± 5.0% RH

Setpoint Range

Auto	38° to 99°F (3° to 37°C)
Heat	38° to 89°F (3° to 32°C)
Cool	59° to 99°F (15° to 37°C)
Humidity	5% to 90% RH

NOTE: The setpoint range can be decreased during device configuration.

Relay Rating

1A @ 24VAC or 30VDC

Power Requirements

Power Consumption	3 W (125 mA @ 24VDC)
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Communications

Cresnet® Wired	Control system integration or networking
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Controls

Keypad	(1) 5-way navigation pad; For menu navigation and temperature/humidity adjustments
HOME	(1) push button; Returns to the previous screen or the home screen
BACK	(1) push button; Steps menu back one level

Display

Type	RGB LCD
Size	1.80 in. (46 mm) diagonal
Resolution	176 x 220
Function	Front panel display to view temperature and humidity settings; Used for local configuration

Connections

Y1, Y2, Y3	(1) Compressor stage 1, 2, and 3
G	(1) Fan relay
B	(1) Active in non-cool modes
O	(1) Active in cool mode
RC	(1) Reference cool
RH	(1) Reference heat
W1, W2, W3	(1) Heat stage 1, 2, and 3
HUM	(1) Humidity call switch power
AUX1, AUX2	(2) Output relay to interface with other HVAC devices
AUX-IN	(1) Signal from HVAC state sensing or other custom programming
TS1, TS2, G	(2) Remote sensor inputs and (2) ground inputs; For indoor remote temperature sensor (CHV-RTS), remote slab sensor (CHV-RSS), remote temperature and humidity sensors (CHV-RTHS), and 10k thermistors (all sensors and thermistors are sold separately); Each temperature sensor requires a dedicated low-capacitance twisted pair wire (<7 nF per run) and supports a wire length of 500 ft (152 m) using CAT5. Thermostat wire is not recommended, but may be used if necessary at lengths up to 100 ft (30 m).

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TS3, G	(1) From outdoor remote temperature sensor and (1) ground; Also compatible with 10k thermistors. All sensors and thermistors are sold separately. (1) Remote sensor input and (1) ground input; For outdoor remote slab sensor (CHV-RSS) and 10k thermistors sensors and thermistors are sold separately); Each temperature sensor requires a dedicated low-capacitance twisted pair wire (<7 nF per run) and supports a wire length of 500 ft (152 m) using CAT5. Thermostat wire is not recommended, but may be used if necessary at lengths up to 100 ft (30 m).
24 Y Z G	(2) 4-pin detachable terminal blocks; Cresnet secondary port with hardware parallel pass-through
USB	(1) Micro B female, USB 2.0 computer console port for firmware download
INTERFACE	For future use

Environmental

Temperature	32° to 104°F (0° to 40°C)
Humidity	10% to 90% RH (noncondensing)
Heat Dissipation	10 BTU/hr maximum; For indoor use only

Construction

Housing	Plastic
Mounting	35 mm DIN EN 60715 rail mount, DIN 43880 form factor for enclosures with 45 mm front panel cutout, occupies 9 DIN module spaces (162 mm)

Dimensions

Height	3.68 in. (94 mm)
Width	6.33 in. (161 mm)
Depth	2.34 in. (60 mm)

Weight

13 oz (363 g)

Compliance

FCC Part 15 Class B, IC Class B, CE

Models

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Available Accessories

For a list of available accessories, visit the [DIN-THSTAT](#) product page.

This product may be purchased from select authorized Crestron dealers and distributors. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/How-To-Buy/Find-a-Representative or contact us for additional information by visiting www.crestron.com/contact/our-locations for your local contact.

The original language version of this document is U.S. English. All other languages are a translation of the original document.

The product warranty can be found at www.crestron.com/warranty.

The specific patents that cover Crestron products are listed online at www.crestron.com/legal/patents.

Certain Crestron products contain open source software. For specific information, please visit www.crestron.com/opensource.

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