# DIN-THSTAT
## Heating, Cooling, and Relative Humidity Thermostat, DIN Rail Mount

### Supplemental Guide
Crestron Electronics, Inc.

# Contents

# Configure the DIN-THSTAT

Configure the Crestron® DIN-THSTAT to match the connected HVAC system and the usage requirements of the thermostat.

**CAUTION:** Only qualified personnel should make changes to the settings on the following page. Damage to the DIN-THSTAT and HVAC system may occur if incorrect settings are selected.

To configure the DIN-THSTAT:

1. Press the left or right button to navigate to the Device Info page.

2. Press the select button to enter the Gateway To Config screen.

3. Press and hold the select button.

4. While holding the select button, press and hold the up and down buttons for 5 seconds. The configuration warning screen displays.

5. Press **HOME** to exit the screen and return to the previous screen or select to continue.

6. Configure the system as necessary. Press the left or right buttons to navigate through the setup screens. Press the up or down buttons to highlight items on the page and then the select button to change the value. When the value is highlighted in red, use the up or down buttons to change the setting. Press the select button to confirm the selected setting and return to the previous page.

## ID & Backlight

| Menu | Description | Value | Default Value |
|---|---|---|---|
| Cresnet ID | Sets the Cresnet® ID network that is used to communicate with the control system. | 03 – FE | 01 |
| Backlight Level | Sets the brightness of the display. | 10 – 100% | 100% |

## System Configuration

| Menu | Description | Value | Default Value |
|---|---|---|---|
| Space System Type | Sets the type of HVAC system that will be controlling air temperature. | Heat/Cool, Dual Fuel Heatpump, Heatpump w/Aux, None | Heat/Cool |
| Floor Rad Type | Sets the type of floor-radiant HVAC system that will be controlling the floor and/or air temperature. | None, Floor Warming, Space Heating, Floor Warming Space Heating | None |
| Fan in Heat | Enables the fan during heat calls on W1, W2, or W3. | Yes, No | No |
| Fan in Humid | Enables the fan when humidistat calls are made. | Yes, No | No |

## System Stages

| Menu | Description | Value | Default Value |
|------|-------------|-------|---------------|
| H/C Heat Stages | Sets the number of heat-only stages that are present. The number of heat-only states is limited to 1 and 2 when a Floor Rad Type is enabled. Available for heat-cool system types only. | 1, 2, 3 | 1 |
| H/C Cool Stages | Sets the number of cool-only stages that are present. Available for heat-cool system types only. | 1, 2, 3 | 1 |
| HP Compressor Stages | Sets the number of heat pump compressor stages that are present. | 1, 2, 3 | 1 |
| HP Aux Heat Stages | Sets the number of heat pump aux heat stages. The number of heat-only states is limited to 1 and 2 when a Floor Rad Type is enabled. | 1, 2, 3 | 1 |

## System Performance

| Menu | Description | Value | Default Value |
|------|-------------|-------|---------------|
| Heat Anticipator | Sets the space heating system cycling characteristics. A smaller number yields faster cycling with a smaller regulation band. | 1 – 6 | 3 |
| Cool Anticipator | Sets the space cooling system cycling characteristics. A smaller number yields faster cycling with a smaller regulation band. | 1 – 6 | 3 |
| Interstage Differential | Sets the temperature difference in degrees between the setpoint and ambient temperature that triggers immediate stage-up for multistage systems. | 0.5, 1.0, 1.5, 2.0, 3.0, 4.0, 5.0, 6.0, 8.0 | 2.0 |
| Accumulated Staging Index | Sets the stage-up for long system calls that do not meet the desired setpoint. Lower numbers cause faster stage-up. | 1 – 6 | 3 |

## Balance Points

| Menu | Description | Value | Default Value |
|------|-------------|-------|---------------|
| Heatpump Balance | Sets the minimum outdoor temperature in degrees to allow heatpump to run. | °F: N/A, 0 – 90<br>°C: N/A, -18 – 32 | °F: N/A<br>°C: N/A |
| Aux Heat Balance | Sets the maximum outdoor temperature in degrees to allow aux heat to run. | °F: N/A, 0 – 90<br>°C: N/A, -18 – 32 | °F: N/A<br>°C: N/A |

## Floor Radiant Heat

| Menu | Description | Value | Default Value |
|------|-------------|-------|---------------|
| Regulation Index | Sets the floor warming system cycling characteristics. Smaller index yields faster cycling with a smaller regulation band. | 1 – 6 | 3 |
| Max Temperature | Sets the maximum allowable floor temperature in degrees during floor radiant space heating calls. | °F: 50 – 110<br>°C: 10 – 43 | °F: 110<br>°C: 43 |

## Timing

| Menu | Description | Value | Default Value |
|------|-------------|-------|---------------|
| Short Cycle Timeout | Sets the minimum time that the HVAC system must be off in seconds between system calls. | 30, 60, 180 | 180 |
| Max Cycles/ Hour | For future use.<br>Sets the maximum number of HVAC system calls per hour. A lower value may interfere with temperature regulation. | N/A, 2 – 10 | N/A |

## Miscellaneous

| Menu | Description | Value | Default Value |
|------|-------------|-------|---------------|
| Temp Display Offset | Sets how the display adjusts the displayed current temperature values in degrees. | °F: -6.0 – 6.0<br>°C: -3 – 3 | °F: 0.0<br>°C: 0.0 |
| Aux Input Usage | Sets the function of a voltage input on the AUX-IN terminal. | Network Report Only, Setback on Active, Setback on Inactive, Defrost UI/ Net Only, Defrost w/Auto Stage up | Network Report Only |

## Auto / Units

| Menu | Description | Value | Default Value |
|------|-------------|-------|---------------|
| Auto SP Format | Sets the auto setpoint format when the system mode is set to **AUTO**. Disable removes **AUTO** from the System Mode screen. | Dual, Single, Disable | Dual |
| Setpoint Units | Sets how the display shows the temperature setpoint and how the thermostat communicates the setpoint to network devices. | 1.0F, 1.0C, 0.5C | 1.0F |
| AUTO Deadband | Sets the minimum separation between setpoints when the system mode is set to AUTO. | °F: 2.0 – 6.0<br>°C: 1.0 – 3.0 | °F: 2.0<br>°C: 1.0 |

# Humidity Setpoints

| Menu | Description | Value | Default Value |
|------|-------------|-------|---------------|
| Cold ODT Setpoint Limiting | Enables or disables a limit on the internal humidistat setpoint to prevent window condensation when the outdoor temperature is cold. The displayed setpoint will not change. | No, Yes | No |
| Hum Output inverted | Enables or disables the inversion of the humidistat relay logic.<br>Normal: On when humidity is less than the setpoint.<br>Invert: On when humidity is greater than the setpoint. | No, Yes | No |
| Hum Lower Setpoint Limit | Sets the minimum humidistat setpoint in percent relative humidity. | 5 – 80 | 10 |
| Hum Upper Setpoint Limit | Sets the maximum humidistat setpoint in percent relative humidity. The lowest limit of the setpoint range is 10% higher than the Hum Lower Setpoint Limit. | 15 – 90 | 70 |

# Heat & Cool Setpoints

| Menu | Description | Value | Default Value |
|------|-------------|-------|---------------|
| Heat Lower Setpoint Limit | Sets the minimum heat setpoint in degrees. | °F: 38 – 79<br>°C: 3 – 26 | °F: 38<br>°C: 3 |
| Heat Upper Setpoint Limit | Sets the maximum heat setpoint in degrees. The lowest limit of the setpoint range is 10°F (5 °C) higher than the Heat Lower Setpoint Limit. | °F: 48 – 89<br>°C: 8 – 32 | °F: 89<br>°C: 32 |
| Cool Lower Setpoint Limit | Sets the minimum cool setpoint in degrees. | °F: 38 – 89<br>°C: 3 – 32 | °F: 59<br>°C: 15 |
| Cool Upper Setpoint Limit | Sets the maximum cool setpoint in degrees. The lowest limit of the setpoint range is 10°F (5 °C) higher than the Cool Lower Setpoint Limit. | °F: 48 – 99<br>°C: 8 – 37 | °F: 99<br>°C: 37 |

# Auto (1pt) & Floor Setpoints

| Menu | Description | Value | Default Value |
|------|-------------|-------|---------------|
| Auto (1pt) Lower Setpoint Limit | Sets the minimum setpoint when the System Mode is set to **AUTO** and the Auto SP Format is set to **Single**. | °F: 38 – 89<br>°C: 3 – 32 | °F: 59<br>°C: 15 |
| Auto (1pt) Upper Setpoint Limit | Sets the maximum setpoint when the System Mode is set to **AUTO** and the Auto SP Format is set to **Single**. The lowest limit of the setpoint range is 10°F (5 °C) higher than the Auto (1pt) Lower Setpoint Limit. | °F: 48 – 99<br>°C: 8 – 37 | °F: 99<br>°C: 37 |
| Floor Lower Setpoint Limit | Sets the minimum lower setpoint for floor warming.<br><br>Floor radiant heat settings are determined in the "Heat & Cool Setpoints" section. | °F: 38 – 100<br>°C: 3 – 38 | °F: 38<br>°C: 3 |
| Floor Upper Setpoint Limit | Sets the maximum upper setpoint for floor warming. The lowest limit of the setpoint range is 10°F (5 °C) higher than the Floor Lower Setpoint Limit.<br><br>Floor radiant heat settings are determined in the "Heat & Cool Setpoints" on page 4. | °F: 48 – 110<br>°C: 8 – 43 | °F: 110<br>°C: 43 |

# Sensor Usage

| Menu | Description | Value | Default Value |
|------|-------------|-------|---------------|
| TS1 Usage | Sets the function of the temperature sensor connected to TS1. | OMIT, SPACE, FLOOR | OMIT |
| TS2 Usage | Sets the function of the temperature sensor connected to TS2. | OMIT, SPACE, FLOOR | OMIT |
| TS3 Usage | Sets the function of the temperature sensor connected to TS3. | OMIT, OUTDOOR | OMIT |
| TS_UI Usage | For future use.<br>Sets the function of the remote user interface sensors connected to INTERFACE. | OMIT, SPACE | OMIT |

# Hum Sensors Trim

| Menu | Description | Value | Default Value |
|------|-------------|-------|---------------|
| TS1 HUM Trim | Sets the adjustment made to the humidity sensor measurement. | -9 – 9 | 0 |
| TS2 HUM Trim | Sets the adjustment made to the humidity sensor measurement. | -9 – 9 | 0 |
| TS3 HUM Trim | Sets the adjustment made to the humidity sensor measurement. | -9 – 9 | 0 |

## Temp Sensors Trim

| Menu | Description | Value | Default Value |
|------|-------------|-------|---------------|
| TS1 TEMP Trim | Sets the adjustment made to the remote temperature sensor measurements. | -6 – 6 | 0.0 |
| TS2 TEMP Trim | Sets the adjustment made to the remote temperature sensor measurements. | -6 – 6 | 0.0 |
| TS3 TEMP Trim | Sets the adjustment made to the remote temperature sensor measurements. | -6 – 6 | 0.0 |
| TS_UI TEMP Trim | For future use. Sets the adjustment made to the user interface remote temperature sensor measurements. | -6 – 6 | 0.0 |

**Design Guide – Doc 8318A**
**(2051469)**
**03.19**
Specifications subject to
change without notice