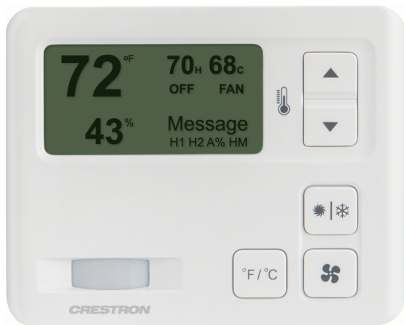


# CHV-TSTAT-FCU-PIR-10-W-T

## 0-10V Heating/Cooling Fan-Coil Thermostat, White Textured



- 0-10V FCU thermostat for variable heating, cooling, and fan speed control
- Additional heating relay for traditional heating elements
- Built-in PIR sensor to detect room vacancy for energy efficiency
- Cresnet® wired communications
- Backlit LCD display
- Large, easy-to-use front panel buttons for heating, cooling, fan speed, temperature scale, and temperature adjustments
- Wall-mount installation

The **CHV-TSTAT-FCU-PIR-10-W-T** thermostat enables precision 0-10V control of fan coil unit (FCU) HVAC systems, for variable heating, cooling, and fan speed control in hotels, apartments, or other multi-dwelling residences. Built with versatility and energy efficiency in mind, the thermostat has the additional benefit of a built-in passive infrared (PIR) sensor to ensure that energy spent on climate control is never wasted on a vacant room. Whether used as a standalone unit or as part of a complete Crestron® control system, the CHV-TSTAT-FCU-PIR-10-W-T delivers superior functionality in a stylish wall mount design.

The backlit LCD display and large, easy-to-read push buttons make this thermostat easy to navigate and use. The screen displays useful information such as the current room temperature, setpoint, mode, and fan setting. Push buttons are provided for raising and lowering the temperature, putting the unit in Heat, Cool, or Auto mode, adjusting the fan speed, and switching between temperature scales. Climate control features include separate heating and cooling setpoints, with an optional automatic changeover between heating and cooling modes. Adjustable anticipators prevent overshooting the set temperature, and continuous fan operation can be selected for increased circulation.

Multiple Crestron thermostats may be networked via Cresnet® wired communications, a simple 4-wire network bus that acts as the communications backbone for Crestron lighting dimmers, keypads, shades, thermostats, and other devices. Integrate the thermostat with a Crestron control system to enable global temperature and humidity adjustments from any thermostat in the system.

### Measurement Range

Temperature	0° to 110°F (-18° to 43°C)
Temperature Tolerance	Over Full Range: ±1°F (±0.5°C) At Room Temperatures: ±1°F (+0.1/-0.4°C)

### Setpoint Range

Heat	38° to 89°F (3° to 32°C)
Cool	59° to 99°F (15° to 37°C)

### Relay Rating

1A @ 40VDC or 24VAC (nominal)

### Power Requirements

Cresnet	24VDC
HVAC Unit	24VAC
Power Consumption	Approximately 1.5 W

### Communications

Cresnet® Wired	Control system integration or networking; Unit is a fully functional standalone thermostat and does not require a connection to the Cresnet network
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### Fan Coil Unit Control

Fan Control	Variable speed control via 0-10V signal; 20 mA max sink or source; Fan speed is not full modulating; Provides four adjustable discrete voltage levels for Off, Low, Medium, and High
Cooling (Modulating Valve)	Variable valve control via 0-10V signal; 20 mA max sink or source
Heating (Modulating Valve)	Variable valve control via 0-10V signal; 20 mA max sink or source
Heating (Relay)	Contact closure to HVAC

### Buttons

MODE	Cycles through Heat, Cool, and Auto modes
FAN	Controls fan speed; Cycles through Auto, High, Medium, Low, and Off settings
UP	Raises the room's setpoint by 1°F or 0.5°C, depending on the active temperature scale

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<b>DOWN</b>	Lowers the room's setpoint by 1°F or 0.5°C, depending on the active temperature scale
<b>°F/°C</b>	Switches between Fahrenheit and Celsius temperature scales

### Motion Sensor

On-board passive infrared sensor;  
Enables thermostat to switch between two previously defined setpoints;  
When motion is detected, the Occupied setpoint is used;  
When the room is vacant, the Unoccupied setpoint is used

### Display

Displays current room temperature, current setpoint, current Heat or Cool mode, thermostat's call for heating or cooling, and current fan setting

<b>Type</b>	Transflective LCD, backlit
<b>Size</b>	2.75 in. (70 mm)
<b>Resolution</b>	128 x 64 pixels
<b>Viewing Angle</b>	±50° horizontal at 0° vertical; ±50° vertical at 0° horizontal

### Connections

<b>HVAC</b>	(3) 6-position terminal blocks with connections that include the following: Power Connections (Required): <b>24 (C)</b> : 24VAC common terminal supplies remote 24VAC power to thermostat; <b>24 (R)</b> : 24VAC reference terminal – Can be connected to R by P4 jumper setting, or tied directly to power source
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**HVAC Control Connections (System Dependent):**  
FAN 0-10V  
FAN COMMON  
HEAT 0-10V  
HEAT COMMON  
COOL 0-10V  
COOL COMMON  
HEAT RELAY A  
HEAT RELAY B

<b>Network</b>	(1) 4-position terminal block; Cresnet device port, connects to Cresnet control network
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### Environmental

<b>Humidity</b>	10% to 95% RH (noncondensing)
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### Construction

Plastic, surface-mountable to the front of a horizontally-oriented 1-gang electrical box

### Dimensions

<b>Height</b>	4.00 in. (102 mm)
<b>Width</b>	5.00 in. (127 mm)
<b>Depth</b>	1.13 in. (29 mm)

### Weight

5.80 oz (165 g)

### Model

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### Available Accessories

For a list of available accessories, visit the [CHV-TSTAT-FCU-PIR-10-W-T-W-T](#) 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](http://www.crestron.com/How-To-Buy/Find-a-Representative) or contact us for additional information by visiting [www.crestron.com/contact/our-locations](http://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](http://www.crestron.com/warranty).

The specific patents that cover Crestron products are listed online at [www.crestron.com/legal/patents](http://www.crestron.com/legal/patents).

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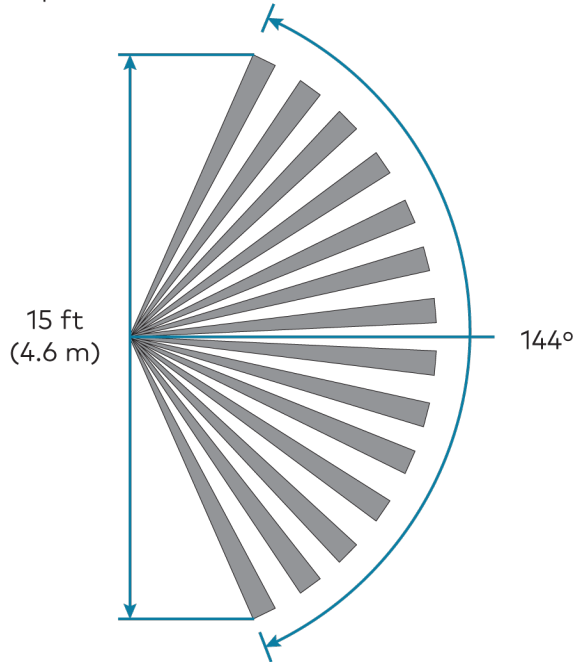
Rev 10/27/23

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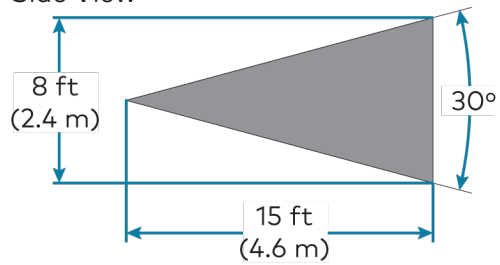
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## PIR Sensor Coverage Pattern

Top View



Side View



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CAD Drawing

