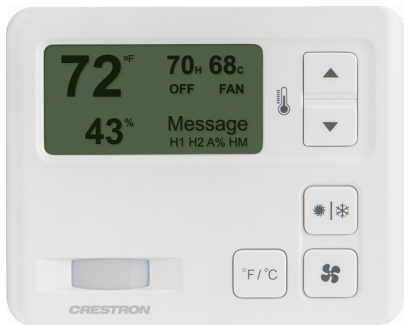


CHV-TSTAT-FCU-PIR-10

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



- 0-10 Volt FCU thermostat for variable heating, cooling, and fan speed control²
- Additional heating relay for traditional heating elements
- Built-in PIR sensor to detect room vacancy for energy efficiency
- Cresnet[®] 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 thermostat enables precision 0-10 Volt control of fan coil unit (FCU) HVAC systems. Achieve variable heating, cooling, and fan speed control in hotels, apartments, or other multi-dwelling residences. Built with versatility and energy efficiency in mind, this 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 delivers superior functionality in a stylish wall mount design – a complement to any décor.

The backlit LCD display and large, easy-to-read pushbuttons make this thermostat easy to navigate and use. The screen displays useful information such as the current room temperature, setpoint, mode, and fan setting. Pushbuttons for raising and lowering the temperature, putting the unit in Heat or Cool mode, adjusting the fan speed, and toggling between temperature scales complete the sleek look and intuitive controls of this thermostat. 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 when needed for increased circulation.

Multiple Crestron thermostats may be networked via Cresnet[®] wired communications,¹ 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 network with any 3-Series[®] control system or newer, including the [DIN-AP4](#), to enable global temperature and humidity adjustments from any

thermostat in the system. Access automation functions such as lighting, motorized blinds, or lawn sprinklers through two custom remote-function pages. Customized text messages such as maintenance reminders and other alerts can be sent to every thermostat's LCD display via the control system.

Specifications

Measurement Range

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 at 40VDC or 24VAC (nominal)

Power Requirements

Cresnet 24VDC

HVAC Unit 24VAC

Power Consumption Approximately 1.5 W

Communications¹

Cresnet

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. It 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

CHV-TSTAT-FCU-PIR-10

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

Buttons

HOT/COLD	Toggles between Heat and Cool 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
Down	Lowers the room's setpoint by 1°F or 0.5°C, depending on the active temperature scale
°F/°C	Toggles between Fahrenheit and Celsius temperature scales

Motion Sensor

On-board passive infrared sensor;
Enables thermostat to toggle 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

Type	Transflective LCD, backlit
Size	2.75 in (70 mm)
Resolution	128 x 64
Viewing Angle	±50° horizontal (at 0° vertical), ±50° vertical (at 0° horizontal); Displays current room temperature, current setpoint, current Heat or Cool mode, thermostat's call for heating or cooling, and current fan setting
HVAC	(3) 6-position terminal blocks with connections that include the following:

Power Connections (Required):
24 (C): 24VAC common terminal supplies remote 24VAC power to thermostat;
24 (R): 24VAC reference terminal – Can be connected to R by P4 jumper setting, or tied directly to power source

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

Network	(1) 4-position terminal block; Cresnet slave port, connects to Cresnet control network
----------------	---

Environmental

Humidity	10% to 95% RH (non-condensing)
-----------------	--------------------------------

Construction

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

Dimensions

Height	3.75 in. (96 mm)
Width	5.00 in. (127 mm)
Depth	1.18 in. (30 mm)

Weight

5.80 oz (165 g)

Models

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

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

Available Accessories

For a list of available accessories, visit the [CHV-TSTAT-FCU-PIR-10-W-T](#) product page.

Notes:

- Unit is a fully functional standalone thermostat. Cresnet communications are for networking or control system integration.
- Fan speed is not full modulating. It provides four adjustable discrete voltage levels for Off, Low, Medium, and High.

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 by calling 855-263-8754.

This product is covered under the Crestron standard limited warranty. Refer to www.crestron.com/warranty for full details.

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

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

Crestron, the Crestron logo, 3-Series, and Cresnet are either trademarks or registered trademarks of Crestron Electronics, Inc. in the United States and/or other countries. Other trademarks, registered trademarks, and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Crestron disclaims any proprietary interest in the marks and names of others. Crestron is not responsible for errors in typography or photography.

Specifications are subject to change without notice.

©2022 Crestron Electronics, Inc.

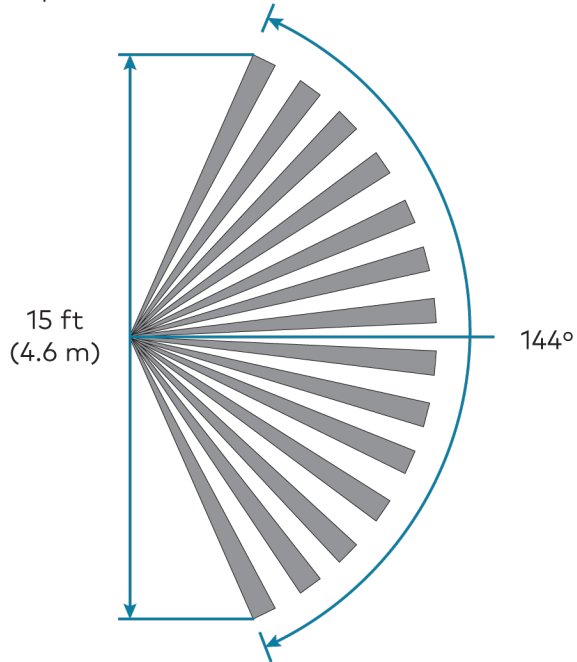
Rev 04/13/22

CHV-TSTAT-FCU-PIR-10

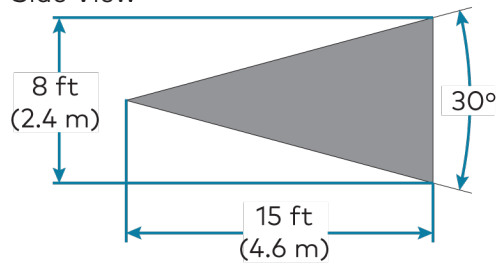
0-10 V Heating/Cooling Fan-Coil Thermostat, White Textured

PIR Sensor Coverage Pattern

Top View



Side View



CHV-TSTAT-FCU-PIR-10

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

CAD Drawing

