

TEC26x6 Series

BACnet® MS/TP Networked Thermostat Controllers with Dehumidification Capability, Fan Control, and Occupancy Sensing Capability

Description

The TEC26x6(H)-4 and TEC26x6H-4+PIR Series Thermostat Controllers are BACnet® Master-Slave/Token-Passing (MS/TP) networked devices that provide control of two- or four-pipe fan coils, cabinet unit heaters, or other equipment using on/off, floating, or proportional 0 to 10 VDC control input, three speeds of fan control, and dehumidification capability. The TEC26x6H-4+PIR Series Thermostat Controllers have occupancy sensing capability built into the device. These devices maximize up to 30% energy savings in high-energy usage light commercial buildings, such as schools and hotels, during occupied times by using additional Stand-By setpoints.

The technologically advanced TEC26x6(H)-4 and TEC26x6H-4+PIR Series Thermostat Controllers feature a Building Automation System (BAS) BACnet MS/TP communication capability that enables remote monitoring and programming for efficient space temperature control. Specific models are available to accommodate commercial and hospitality applications.

The TEC26x6(H)-4 and TEC26x6H-4+PIR Series Thermostat Controllers feature an intuitive User Interface (UI) with backlit display that makes setup and operation quick and easy. The thermostats also employ a unique, Proportional-Integral (PI) time-proportioning algorithm that virtually eliminates temperature offset associated with traditional, differential-based thermostat controllers.

Refer to the *TEC26x6(H)-4 and TEC26x6H-4+PIR Series BACnet MS/TP Networked Thermostat Controllers with Dehumidification Capability, Fan Control, and Occupancy Sensing Capability Product Bulletin (LIT-12011587)* for important product application information.



**TEC26x6(H)-4 Series
Thermostat Controller**



**TEC26x6H-4+PIR Series
Thermostat Controller**

Features

- BACnet MS/TP communication — provides compatibility with a proven communication network; BACnet MS/TP is widely accepted by Heating, Ventilating, and Air Conditioning (HVAC) control suppliers
- onboard occupancy sensor (Passive Infrared [PIR] Models) — provides energy savings without additional installation time and cost
- password protection option — protects against unwanted thermostat controller tampering
- integral humidity sensing capability (dehumidification models) — increases occupancy comfort by providing dehumidification
- backlit Liquid Crystal Display (LCD) — offers real-time control status of the environment in easy-to-read, English plain text messages with constant backlight that brightens during user interaction
- on/off, floating, or proportional 0 to 10 VDC control — offers additional application flexibility by providing more advanced control signals
- three speeds of fan control — provide easy **FAN** speed selection via the interface key, to meet the application requirements

- single/dual setpoint adjustment — enables user setpoint options to accommodate application
- override interface key (commercial models) — allows easy access for temporarily overriding the unoccupied mode
- temperature scale selector key (hospitality models) — offers guests the ability to select a Fahrenheit (°F) or Celsius (°C) temperature scale display
- two configurable binary inputs — provide additional inputs for advanced functions such as remote night setback, service or filter alarms, motion detector, and window status
- over 20 configurable parameters — enable the thermostat to adapt to any application, allowing installer parameter access without opening the thermostat cover
- optional discharge air sensor — monitors unit efficiency

Repair Information

If a TEC26x6(H)-4 or TEC26x6H-4+PIR Series Thermostat fails to operate within its specifications, replace the unit. For a replacement thermostat, contact the nearest Johnson Controls® representative.

Selection Chart

TEC26x6(H)-4 and TEC26x6H-4+PIR Thermostat Controller Models (Part 1 of 2)

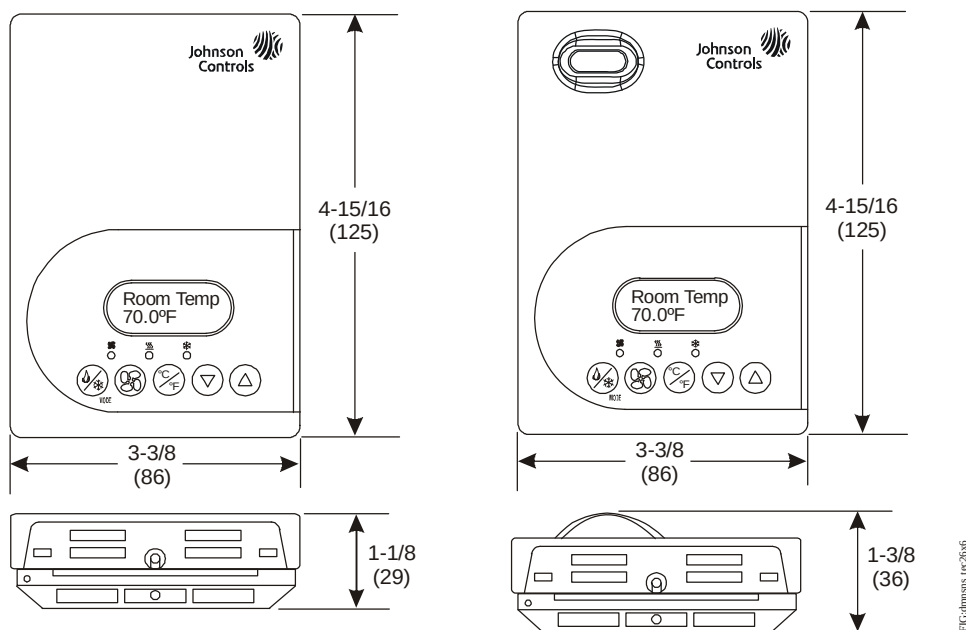
Code Number	Control Outputs	Onboard Occupancy Sensor	Dehumidification Capability	Application
TEC2616-4	Two On/Off	No	No	Commercial Market
TEC2616H-4	Two On/Off	No	No	Hospitality Market
TEC2616H-4+PIR	Two On/Off	Yes	No	Hospitality Market
TEC2626-4	Two On/Off or Floating	No	No	Commercial Market
TEC2626H-4	Two On/Off or Floating	No	No	Hospitality Market
TEC2626H-4+PIR	Two On/Off or Floating	Yes	No	Hospitality Market

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TEC26x6(H)-4 and TEC26x6H-4+PIR Thermostat Controller Models (Part 2 of 2)

Code Number	Control Outputs	Onboard Occupancy Sensor	Dehumidification Capability	Application
TEC2636-4	Two On/Off or Floating	No	Yes	Commercial Market
TEC2636H-4	Two On/Off or Floating	No	Yes	Hospitality Market
TEC2636H-4+PIR	Two On/Off or Floating	Yes	Yes	Hospitality Market
TEC2646-4	Two Proportional 0 to 10 VDC	No	No	Commercial Market
TEC2646H-4	Two Proportional 0 to 10 VDC	No	No	Hospitality Market
TEC2646H-4+PIR	Two Proportional 0 to 10 VDC	Yes	No	Hospitality Market
TEC2656-4	Two Proportional 0 to 10 VDC	No	Yes	Commercial Market
TEC2656H-4	Two Proportional 0 to 10 VDC	No	Yes	Hospitality Market
TEC2656H-4+PIR	Two Proportional 0 to 10 VDC	Yes	Yes	Hospitality Market

Dimensions



TEC26x6(H)-4 and TEC26x6H-4+PIR Thermostat Controller Dimensions, in. (mm)

Accessories (Order Separately)

Code Number	Description
SEN-600-1	Remote Indoor Air Temperature Sensor
TE-6361M-1 ¹	Duct Mount Air Temperature Sensor
SEN-600-4	Remote Indoor Air Temperature Sensor with Occupancy Override and LED
TE-636S-1	Strap-Mount Temperature Sensor
MS-BACEOL-0	RS485 End-of-Line Terminator
TEC-6-PIR ²	Commercial Fan Coil Cover for Occupancy Sensor
TEC-6H-PIR ²	Hospitality Fan Coil Controller Cover for Occupancy Sensor

1. Additional TE-636xx-x Series 10k ohm Johnson Controls Type II Thermistor Sensors are available; refer to the *TE-6300 Series Temperature Sensors Product Bulletin (LIT-216320)* for more details.
2. The TEC-6-PIR and TEC-6H-PIR Accessory Covers can be used to replace the existing cover on a non-PIR TEC26x6(H)-4 Series Thermostat Controller to provide occupancy sensing capability.

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Technical Specifications

TEC26x6(H)-4 and TEC26x6H-4+PIR Series BACnet MS/TP Networked Thermostat Controllers with Dehumidification Capability, Fan Control, and Occupancy Sensing Capability		
Power Requirements		19 to 30 VAC, 50/60 Hz, 2 VA (Terminals 4 and 5) at 24 VAC Nominal, Class 2 or Safety Extra-Low Voltage (SELV)
Relay/Triac Contact Rating	On/Off and Floating Control	19 to 30 VAC, 1.0 A Maximum, 15 mA Minimum, 3.0 A In-Rush, Class 2 or SELV
Analog Output Rating	Proportional Control	0 to 10 VDC into 2k ohm Resistance (Minimum)
Fan Relay Output Rating		19 to 30 VAC, 1.0 A Maximum, 15 mA Minimum, 3.0 A In-Rush
Auxiliary Output Rating	Triac Output	19 to 30 VAC, 1.0 A Maximum, 15 mA Minimum, 3.0 A In-Rush
Binary Inputs		Voltage-Free Contacts across Terminal Scom to Terminals BI1, BI2, or UI3
Analog Inputs		Resistive Inputs (RS and UI3) for 10k ohm Johnson Controls Type II Negative Temperature Coefficient (NTC) Thermistor Sensors
Temperature Sensor Type		Local 10k ohm Negative Temperature Coefficient (NTC) Thermistor
Wire Size		18 AWG (1.0 mm Diameter) Maximum, 22 AWG (0.6 mm Diameter) Recommended
MS/TP Network Guidelines		32 Devices Maximum; 4,000 ft (1,219 m) Maximum Cable Length
Temperature Range	Backlit Display	-40.0°F/-40.0°C to 122.0°F/50.0°C in 0.5° Increments
	Heating Control	40.0°F/4.5°C to 90.0°F/32.0°C
	Cooling Control	54.0°F/12.0°C to 100.0°F/38.0°C
Accuracy	Temperature	±0.9°F/±0.5°C° at 70.0°F/21.0°C Typical Calibrated
	Humidity	±5% RH from 20 to 80% RH at 50 to 90°F (10 to 32°C)
Minimum Deadband		2°F/1C° between Heating and Cooling
Ambient Conditions	Operating	32 to 122°F (0 to 50°C); 95% RH Maximum, Noncondensing
	Storage	-22 to 122°F (-30 to 50°C); 95% RH Maximum, Noncondensing
Compliance	United States	UL Listed, File E27734, CCN XAPX, Under UL 873, Temperature Indicating and Regulating Equipment FCC Compliant to CFR 47, Part 15, Subpart B, Class A
	Canada	UL Listed, File E27734, CCN XAPX7, Under CAN/CSA C22.2 No. 24, Temperature Indicating and Regulating Equipment Industry Canada, ICES-003
	Europe	CE Mark, EMC Directive 2004/108/EC
	BACnet International	BACnet Testing Laboratories™ (BTL) 135-2001 Listed BACnet Application Specific Controller (B-ASC)
	Australia and New Zealand	C-Tick Mark, Australia/NZ Emissions Compliant
Shipping Weight		TEC26x6(H)-4 Models: 0.75 lb (0.34 kg) TEC26x6H-4+PIR Models: 0.77lb (0.35 kg)