



Carrier TBPL-24-H-C Automation System Thermostats User Guide

[Home](#) » [Carrier](#) » Carrier TBPL-24-H-C Automation System Thermostats User Guide 



**i-Vu® Building Automation System
TB & TM Plus Series Thermostats**



Contents

- [1 TBPL-24-H-C Automation System Thermostats](#)
- [2 Key Features](#)
- [3 Applications](#)
- [4 Specifications](#)
- [5 Documents / Resources](#)
 - [5.1 References](#)

TBPL-24-H-C Automation System Thermostats

Enhance occupant comfort and optimize energy efficiency in a wide range of HVAC applications with the Carrier TB and TM Plus thermostats. Available with BACnet (TBPL series) or MODBUS (TMPL series) communication protocols, the TB and TM Plus thermostats seamlessly integrate with your building management system (BMS) or provides standalone zone/room control. Leveraging the advanced capabilities of Carrier's i-Vu® platform, the TB and TM Plus deliver precise temperature control for any space.

Key Features

- Easy-to-use touchscreen display
- Temperature, humidity, and motion onboard sensors for optimal control
- BACnet or MODBUS communication protocol capable (depending on model) for flexible system integration
- Configurable inputs and outputs for versatile control
- Real-time clock maintains accurate time for up to 7 days during power outages
- Flexible power supply options (24VAC or 110-220V)*

*depending on thermostat model

Applications

- Fan (FCUs): Enhance occupant comfort by providing individual control over fan speed and temperature
- Rooftop Units (RTUs): Optimize RTU operation for energy efficiency through precise temperature and airflow control
- Heat Pumps: Maximize heat pump performance and efficiency with integrated control of heating and cooling modes
- Variable Frequency Drives (VFDs): Seamlessly integrate with VFDs to fine-tune motor speeds and optimize energy consumption

Specifications

| TB Plus Series (BACnet) | Part# | | | |
|-------------------------|----------------------|------------------------------|----------------------|---|
| Options | 24V, Temp., Humidity | 24V, Temp., Humidity, Motion | 110-220V, Temp. Only | — |
| Branded | TBPL-24-H-C | TBPL-24-HM-C | TBPL-H-C | — |
| Unbranded | TBPL-24-H | — | TBPL-H | — |

| | | | | |
|--|--|---|-------------|-----------------------------------|
| Communication | BACnet MS/TP (subordinate device) Baud rates up to 76.8 kbps, detected and set automatically by the thermostat | | | |
| TM Plus Series (MODBUS) | Part# | | | |
| Options | 24V, Temp., Humidity | – | – | 110-220V, Temp., Humidity, Motion |
| Unbranded | TMPL-24-H | – | – | TMPL-HM |
| Communication | Modbus RTU (server) Baud rates up to 76.8 kbps, detected and set automatically by the thermostat | | | |
| Power Requirements | 24 VAC ± 15% 4VA no load, 76 VA Full Load | | 110-220 VAC | |
| Display | Backlit, Resistive Touchscreen | | | |
| Sensing Element | | | | |
| Temperature | Range: 41-95° (5-35°C), Accuracy: ± 1°F (0.5°C) | | | |
| Humidity Range: 10-90% Accuracy: ± 3% Typical | X | X | X | X |
| Motion Sensor Type: PIR, quad, omnidirectional Distance: 16.4 ft. (5 m) Detection Range: 90 x 30 (HxV) Movement Speed: 2.62 – 3.94 ft/s (0.8 – 1.2 m/s) Detection Object: 15.75 x 9.84 in. (400 x 250 mm) | – | X | – | X |
| Inputs | T1, 0 – Normally Open (NO) or Normally Closed (NC) dry contract, or 0-10 Vdc AI, or 50 kOhm thermistor @ 77°F (25°C) A, B – Communication +/- (RS485) In1, 0 – NO or NC dry contract, or 0-10 Vdc AI, or 50 kOhm thermistor @ 77°F (25°C) C, R – Power 24 VAC | | | |
| Outputs | 11, 12, 13 – DO, 3A 14 – DO 0.3A 15, 16 – DO 0.3A or AO 0-10 Vdc, 5 mA max.,not isolated | | | |
| Environmental Operating Range | 50° to 122°F (10° to 50°C), 10 – 90% RH, non-condensing | | | |
| Housing | Rectangular form factor, fire-retardant ABS plastic, UL94V-0 | | | |
| Mounting | Installs to a standard wall box with mounting hardware included (consult technical instructions) | | | |
| Compliance | FCC CFR47, chapter 1, subchapter A, part 15, class B ICC, ICES-003, class B CE Mark LVD, 2014/35/EU RoHS 2011/65/EU C-Tick Mark, AS/NZS 61000-6-3 CA Prop. 65 | | | |

| | |
|-------------------|---|
| Dimensions | 3.15" W x 5.04" H x 0.62" D (8cm W x 12.8cm H x 1.55cm D) w/ PIR 3.15" W x 4.65" H x 0.62" D (8cm W x 11.81cm H x 1.55cm D) w/o PIR NOTE: Depth of unit that inserts into gang-box is 0.95" (2.4cm) |
| Weight | 9.7 oz (0.28 kg) |




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For more information, contact
your local Carrier Controls Expert.
Controls Expert Locator:
www.carrier.com/controls-experts

Documents / Resources

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|  | <p>Carrier TBPL-24-H-C Automation System Thermostats [pdf] User Guide TBPL-24-H-C, TBPL-24-HM-C, TBPL-H-C, TBPL-24-H, TBPL-H, TMPL-24-H, TMPL-HM, TBPL-24-H-C Automation System Thermostats, TBPL-24-H-C, Automation System Thermostats, Thermostats</p> |
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References

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- [User Manual](#)

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