



i-Vu® Building Automation System

ComfortVu™ BACnet Thermostat

24Vac Plus Models
Part numbers: TBPL-24-H-C, TBPL-24-HM-C



The i-Vu® Building Automation System provides everything you need to access, manage, and control your building, including the powerful i-Vu user interface, plug-and-play BACnet controllers, and state-of-the-art Carrier equipment.

Carrier's ComfortVu™ BACnet thermostats offer local control of a building's heating, ventilating and air-conditioning (HVAC) system as well as remote control from any BACnet-compliant building management system (BMS), including Carrier's i-Vu® building automation system.

Features

- Large, backlit LCD display
- Touchscreen occupant controls
- Support for Celsius or Fahrenheit
- BACnet MS/TP port for easy integration with i-Vu system or any BACnet-compliant BMS
- On-board DIP switches to configure equipment type and sequence of operation
- 2 universal inputs, 2 analog outputs, and 6 digital outputs
- Available in two 24Vac models:
 - Temperature/Humidity (TBPL-24-H-C)
 - Temperature/Humidity/PIR Motion (TBPL-24-HM-C)

Supported Functions

- Manage 7-day schedules via the thermostat
- Manage setpoints, occupancy status, fan speed, and heating/cooling mode via the thermostat or BACnet BMS
- Support for Title 24 demand response/economizer FDD and IECC2015 economizer FDD when connected to a BMS

Equipment Compatibility

- Rooftop Units
- Heat Pumps
- Fan Coils
- Unit Heaters

Supported Applications (depends on available I/O)

- Up to 3 stages of heat / 2 stages of cool
- 2 pipe / 4 pipe cooling / heating valves (0-10V)
- Up to 3 fan speeds
- VFD (0-10V)
- Economizer (open/close)
- Reversing valve
- Humidifier (0-10V) / Reheat (dehumidify)



Seamless integration with the i-Vu® building automation system makes it easy to view, schedule, and manage the connected HVAC system.



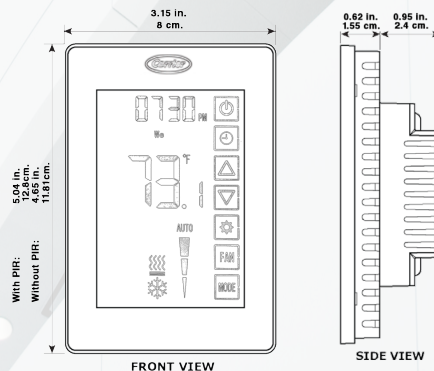
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Power Requirements	24 Vac \pm 15%: 4VA unit, 76 VA full load		
Communication	BACnet MS/TP with baud rates up to 76.8 kbps, detected and set automatically by the BACnet Thermostat. Max 127 devices.		
Real-Time Clock	Real-time clock keeps track of time in the event of a power failure for up to 7 days.		
Display	Backlit Touchscreen, °F or °C Selectable		
Sensing Element		Range	Accuracy
	Temperature	41° F to 95° F (5° C to 35° C)	\pm 1.0° F (0.5° C)
	Humidity	10% to 90 %	\pm 3.0% typical
Motion Sensing	Sensor Type: PIR, quad, omnidirectional Distance: 16.4 feet (5m) Detection range: (HxV) 90° x 30° Movement speed: 2.62 to 3.94 ft/s (0.8 to 1.2 m/s) Detection object: 15.75 x 9.84 in. (400 x 250 mm)		
Inputs	T1, 0 – Normally open or normally closed dry contact, or 0-10 Vdc analog input, or 50 kOhm thermistor @ 25°C A, B - Communication +/- (RS485) In1, 0 - Normally open or Normally closed dry contact, or 0-10 Vdc analog input, or 50 kOhm thermistor @ 25°C C, R - Power: 24 Vac for part numbers TBPL-24-C and TBPL-24-HM-C, or 110-220 Vac line voltage for part numbers TBPL-C and TBPL-HM-C		
Outputs	11, 12, 13 – Digital outputs, 3A 14, 15, 16 – Digital outputs 0.3A AO1, AO2 - Analog output 0-10 Vdc, 5 mA max., not isolated		
Environmental Operating Range	50° to 122°F (10° to 50°C), 10 to 90% relative humidity, non-condensing		
Compliance	United States of America: FCC CFR47, Chapter 1, Subchapter A, Part 15, Class B Canada: Industry Canada Compliant, ICES-003, Class B Europe: CE-Mark Low Voltage Directive: 2014/35/EU RoHS Compliant: 2011/65/EU Australia and New Zealand: C-Tick Mark, AS/NZS 61000-6-3 CA Prop 65 Warning: This product can expose you to chemicals including Styrene and 1,3 – Propane sultone, which are known to the State of California to cause cancer. Go to www.p65warnings.ca.gov		
Physical	Fire-retardant plastic ABS, UL94V-0		
Mounting	Wall mount on a standard 4" x 2-1.2 x 2" electrical box using provided 6/32 x 1/2" mounting screws		
Weight:	9.7 oz (0.28 kg)		



CONTROLS EXPERT

Tested. Certified. Factory Authorized.

For more information, contact your local Carrier Controls Expert.

Controls Expert Locator:
www.carrier.com/controls-experts

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