

BACnet Thermostat | Model: X-THB-24-DL00



Description

The **BACnet Thermostat** is a Wi-Fi touchscreen thermostat with an advanced remote sensor bus, designed for new or replacement commercial and residential applications. Use the X-THB for either conventional or heat pump applications (Gas/Elect 2H/2C, HP 3H/2C), along with humidification, fresh air damper, IAQ controls, CO2 controls, and more. Daily commercial scheduling (4 events per day) and up to 80 Additional Events (40 Special and 40 Calendar Events) and Demand Response Control are included in all X-THB thermostats. The unique scheduling structure also supports the powerful features of adjustable temporary override times and temperature ranges, occupied and unoccupied events, keypad lockout, and many more features.

Specifications

- **Rated Voltage:** 20V to 30VAC, 24VAC nominal, or 24VDC with jumper removed on faceplate
- **Rated A.C. / D.C. Current:** 0.05 to 0.75 AC / 0.0 to 0.75 DC Amp continuous, per output, surges to 3 Amps maximum
- **Thermostat Sensing Range:** 32°F to 124°F (0°C to 48°C)
- **Control Accuracy:** ±1°F @ 68°F (±0.5°C @ 20°C)
- **Temperature Control Range:**
 - **Heating:** 38 to 88°F (6 to 30°C) in 1° steps
 - **Cooling:** 60 to 108°F (16 to 40°C) in 1° steps
- **Minimum Deadband:** 2°F (1°C)
- **Equipment Terminations:** R - 24VAC switching voltage from HVAC Equipment
 W1 - Heat1 or Aux/Emer Heat
 G - Fan, Y1-Compressor1
 Y2 - Compressor2
 O/W2 - Heat2 or Rev. Valve in Cooling
 B - Rev. Valve in Heating
- **Aux Relay Terminations:** K/H/D – Humidify / Dehumidify / Relay Schedule (KHD or K2) / Damper / IAQ / CO2
 K2 – Relay Schedule (KHD or K2) / Damper / IAQ / CO2
- **Power Terminations:**
 R - 24VAC switching voltage from HVAC Equipment
 24V - Separate Power (24VAC/DC), requires faceplate jumper removal
 24V(c) - power return
- **Input Terminations:** LED1 (Filter Icon Selectable), LED2 (Fault Icon Selectable), CLK1 (+), CLK2 (-) (Occupancy)
- **Remote Sensor Terminations:** RS+V - Power, RS2 - Return, RS1 - Data
- **Wireless Radio:** 2.4GHz 802.11b/g, Security: Open, WEP, WPA-PSK, WPA2-PSK