



ULPLUS-TST-BAC

UltraLink+ Wireless BACnet Thermostat



The ULPLUS-TST-BAC is a BACnet-compatible thermostat with WiFi connectivity and a touchscreen interface. It supports conventional (Gas/Electric 2H/2C) and heat pump (3H/2C) systems, with control for humidification, fresh air dampers, IAQ, and CO₂. The thermostat offers daily commercial scheduling (4 events/day) and automatically adjusts temperature based on occupancy data from the UltraLink+ system to enhance comfort and energy efficiency. It connects to a Bluetooth mesh network and it can be accessed with the UltraLink+ web portal or mobile app for initial design, setup, and configuration.

TECHNICAL SPECIFICATIONS¹

- **Input Voltage:** 20-30V AC, 24 VAC nominal, or 24V DC with jumper removed on faceplate.
- **Rated AC / DC 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 51°C).
- **Control Accuracy:** ±1°F @ 68°F (±0.5°C @ 20°C).
- **Temperature Control Range:**
 - Heating: 38°F to 88°F (6°C to 30°C) in 1° steps.
 - Cooling: 60°F to 108°F (16°C to 40°C) in 1° steps.
- **Minimum Deadband:** 2°F (1°C).
- **WiFi:** 2.4GHz 802.11b/g, Security: Open, WEP, WPA-PSK, WPA2-PSK.
- **Max Bluetooth Range:** 200ft (60.8m) line of sight.
Range is highly dependent on the integration of fixtures, environment and conditions. It is recommended to conduct testing for range accuracy.

FEATURES

- Wi-Fi connectivity.
- Touchscreen interface.
- Daily commercial scheduling (4 events per day).
- Up to 80 additional events (40 special and 40 calendar).
- Demand response control.
- Adjustable temporary override times and temperature ranges.
- Occupied and unoccupied events.
- Keypad lockout.
- Suitable for indoor use only.
- Mobile app available for iOS and Android devices.

LISTINGS

- FCC, UL, DLC
- Conforms with DLC NLC5 Cybersecurity Standards.



ORDERING

Part Number	Description
ULPLUS-TST-BAC	UltraLink+ Bluetooth NLC Wireless Thermostat, Touchscreen, BACnet, Wired, 20-30V AC or 24V DC, BubblyNet Firmware. Additional electrical materials may be required for installation.

TERMINATIONS

- 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:** 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 (24V AC/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
 - RS1:** Data
 - RS2:** Return

FOOTNOTES

1. The performance of this product is influenced by various factors beyond Linmore LED’s control, including but not limited to environmental conditions, user settings, and proper maintenance. While we provide detailed specifications and guidelines to help optimize performance, we cannot guarantee or be held liable for its performance under any particular circumstance(s). Customers are advised to test the products in their specific application environments to ensure suitability for their intended use.

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