



ULPLUS-TST-BAC

UltraLink+ 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 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).
- **Temp. 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).
- **Humidity Sensing Range:** 0% - 100% RH.
- **Humidity Control Accuracy:** ±3% From 10% - 90%.
- **WiFi:** 2.4GHz 802.11b/g, Security: Open, WEP, WPA-PSK, WPA2-PSK.

FEATURES

- Full Modbus TCP/IP and BACnet/IP support over Wi-Fi.
- Color selectable touchscreen display.
- Daily commercial scheduling (4 events per day).
- Up to 80 additional events (40 special and 40 calendar).
- Integrated humidity sensor.
- 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.



ORDERING

Part Number	Description
ULPLUS-TST-BAC	UltraLink+ 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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