



Specification Sheet

TEC4000S Thermostat Zone Controller (Full Color LCD Touchscreen)

Description

TEC-4000S Series Thermostat Controller is a stand-alone and field-selectable BACnet® Master-Slave/Token-Passing (MS/TP) or N2 networked devices that provide proportional control of:

- Local hydronic reheat valves
- Pressure-dependent VAV equipment with or without local reheat
- Two (2) or four (4) pipe fan coils
- Cabinet unit heaters
- Other zoning equipment using 0–10VDC proportional control input

The TEC4000S features a field-selectable Building Automation System (BAS) BACnet MS/TP or N2 communication capability that enables remote monitoring and programming for efficient space temperature control. USB port configuration reduces installation time by allowing simple backup and restore features from a USB drive, which enables rapid cloning of configuration between like units.

The TEC4000S features a bright, high-definition capacitive 4" (102mm) touchscreen display that provides responsive feedback and improved readability of text and icons. The home screen is configurable to Modern and Classic themes (with Light and Dark variations), with an intuitive UI that makes setup and operation quick and easy.



Available in a stylish white high-gloss finish



Single SKU

For a wide range of applications, eliminating complexity and inventory



Installation

Mounting capabilities for a wide range of circumstances



Fast Setup

Quick, intuitive setup menu and equipment profiles reduce configuration time



Hospitality

New mode with restricted access for guests, students, tenants and patients



4" Screen

Full color touchscreen, with a user interface designed for AAA WCAG accessibility compliance



Occupancy

Integrated occupancy sensor, hidden from users



Specification Sheet

TEC4000S Thermostat Zone Controller (Full Color LCD Touchscreen)

Features

Two Configurable Binary Inputs	Provide additional inputs for advanced functions such as remote night setback, service or filter alarms, motion detector, and window status, and configures the application to respond accordingly.
Field-Selectable BACnet MS/TP or N2 Networked Communication	Simplifies the upgrade from N2 networked communication to BACnet MS/TP networked communication without changing hardware.
USB Port Configuration	Reduces installation time by allowing simple backup and restore features from a USB drive, which enables rapid cloning of configuration between like units.
4" (102mm) Color Backlit LCD Display	Offers real-time control status of the environment in easy-to-read, plain text messages with adjustable backlight that brightens during user interaction.
Configurable Touch Screen UI	Allows facility managers to limit the user interaction with the thermostat controller display based on specific energy policies.
Occupancy Sensor	Integrated sensor monitors occupancy while remaining invisible to occupants.
Humidity Sensor	Monitors space humidity; activates dehumidification control on two-pipe fan coil units with reheat and four-pipe fan coil units with or without reheat.
Hospitality Mode	Allows limited settings adjustments for occupants, while restricting access to critical functionality to system administrators.
End-of-Line Switch	Simplifies the layout and installation of communication buses.
Mobile Access Portal (MAP) Gateway Compatibility (MAP Release 4.0 or Later)	Allows the user to view equipment and control conditions using mobile devices.
Stand-Alone and BACnet MS/TP or N2 Networked Models	Offers application flexibility.
Proportional 0–10VDC and Single or Two-Stage Control	Offers additional application flexibility by providing more advanced control signals.



Specification Sheet

TEC4000S Thermostat Zone Controller (Full Color LCD Touchscreen)

Technical Specifications

Specification		Description
Dimensions (HxWxD)		4.5" x 4.5" x 0.8" (115mm x 115mm x 20mm)
Shipping Weight		0.77 lbs. (0.35 kg)
Power Requirements		19VAC – 30VAC, 50/60Hz, 4VA @ 24VAC Nominal, Class 2 or Safety Extra Low Voltage (SELV)
USB Port	Format	FAT32 Formatted 32GB USB-C 2.0+, 32GB USB-A (USB-A – USB-C Adapter)
	Power Rating	120mA – 250mA Current Draw Supported
Binary Output Rating	On/Off or Floating Control	19VAC – 30VAC, 1.0A Maximum, 15mA Minimum, 3.0A In-Rush, Class 2 or SELV (Max 100VA Through Device)
Analog Output Rating	0–10VDC	0–10VDC with 5mA Drive Current Resolution ±0.05V / Accuracy ±0.1V
Binary Inputs		Dry Contact Across Terminal COM to Terminals UI1, UI2, UI3
Analog Inputs		0–10VDC, Nickel, Platinum, A99B, 2.25k ohm NTC, 10K ohm NTC Type 3 Across Terminal COM to Terminals UI1, UI2, UI3
Electrical / HVAC Wire Size		18AWG (0.75mm ²) – 22AWG (0.34mm ²) Recommended
MS/TP Network Wire Size		22AWG (0.34mm ²) Recommended
Temperature Ranges	Heating Control	40.0°F – 90.0°F (4.5°C – 32.0°C)
	Cooling Control	54.0°F – 100.0°F (12.0°C – 38.0°C)
Accuracy	Temperature	±0.9°F @ 70.0°F (±0.5°C @ 21.0°C) Typical Calibrated
	Humidity	±5% RH From 20% – 80% RH @ 50°F – 90°F (10°C – 32°C)
Minimum Deadband		2°F (1°C) Between Heating / Cooling
Occupancy Sensor Motion Detection		Minimum 94 Angular Degrees to Distance of 15' (4.6m)
Ingress Protection		IP30
Ambient Conditions	Operating	32°F – 122°F (0°C – 50°C); 95% RH Maximum, Noncondensing
	Storage	-22°F – 122°F (-30°C – 50°C); 95% RH Maximum, Noncondensing
Compliance	BACnet International	BACnet Testing Laboratories™ (BTL) 135-2024 Listed BACnet Advanced Application Controller (B-AAC)
	United States	UL Listed, File E27734, CCN XAPX, Under UL60730
		Networked Models: FCC Compliant to CFR 47, Part 15, Subpart B, Class B Occupancy Sensor Radar: FCC ID: OEJ-TEC4KL60GRS
	Canada	UL Listed, File E27734, CCN XAPX7, Under E60730
		Networked Models: Industry Canada, ICES-003 Occupancy Sensor Radar: IC ID: 279A-TEC4KL60GRS
	Europe	CE Mark - This product is in compliance with the essential requirements and other relevant provisions of the RED Directive and the RoHS Directive. REACH
Australia / New Zealand	RCM Mark, Australia / NZ Emissions Compliant	