



Network Thermostats: eZNT-T304

Description

The eZNT-T304 network thermostat combines local room sensors with a fully programmable controller with 3 universal inputs and 4 binary outputs. The eZNT-T304 also offers a choice of backlit colors that provide additional user feedback and esthetic appeal. The eZNT NFC technology enables installers to use NFC-enabled mobile devices to configure the thermostat on the wall or in its shipped box.

The eZNT-T304 delivers custom solutions specific to the needs of each market, and provides building occupants with an intuitive touch-interface to adjust their individual comfort levels. The eZNT-T304 customizable button overlays also allow the thermostat on the wall to match customer decor and branding.



Application

The eZNT-T304 is suitable for controlling a wide variety of basic unitary equipment. The eZNT-T304 is ideal for tri-state or time proportional valves and electric heat control, or packaged unit integration in applications like heat pumps, simple RTUs, VAV/VVT, Fan Coils, Unit Ventilators, Chilled beam and radiation. Custom sequences allow full use of all outputs for additional control of exhaust fans, lighting and blinds control or a supplementary heat stage.

The optional humidity, motion and CO₂ sensors allow advanced control strategies such as demand control ventilation, energy savings based on occupancy and optimal user comfort.

Features

- ▶ Native BACnet® firmware
- ▶ Standard RGB backlight allows choice of colors to indicate conditions, alarms and night mode
- ▶ Large easy-to-read LCD screen. Onscreen visual feedback on button selection
- ▶ Multiple button and slider layout options. Custom button design available through Partner Applications Services (PAS)
- ▶ Support for custom sequences through GCL+ programming
- ▶ Support for local scheduling, trending and alarming
- ▶ Binary outputs switch AC or DC, with internal or external power options
- ▶ USB Service port, software enabled or disabled. Service tool not required.
- ▶ Smartphone and tablet integration and setup using NFC technology
- ▶ Fits most electrical boxes worldwide
- ▶ 2-piece design with tamper set screw lock

Specifications

External Inputs

3 Universal Inputs (12-bit), software configurable for:
0-5 VDC
0-10 VDC
10 kΩ Thermistor
Dry Contact

External Outputs

4 SSR (FET) Outputs
24 VAC/DC @ 0.5 A max (internal or external powered)

LCD

2-line custom segmented display with icons

Buttons

2 rows of 4 capacitive touch zones, allowing up to 8 individual buttons or combined to form larger buttons

Backlight

RGB LED backlight for multicolor LCD and button illumination

Temperature

Digital Temperature Sensor
+/- 0.2° C (+/- 0.36°F)

Digital Humidity Sensor (Optional)

Accuracy +/- 3%

CO₂ Sensor (Optional)

Dual Beam, Self Calibrating NDIR Detection

Range: 0-2000 ppm

Accuracy @ 25°C (77°F):
± (50ppm + 2% of value)

Temperature Dependence: 2ppm/°C
(1 ppm/ °F) typical

Pressure Dependence: 0.13% of reading per mm Hg

Stability: 20 ppm/year (typical)

Occupancy Sensor (Optional)

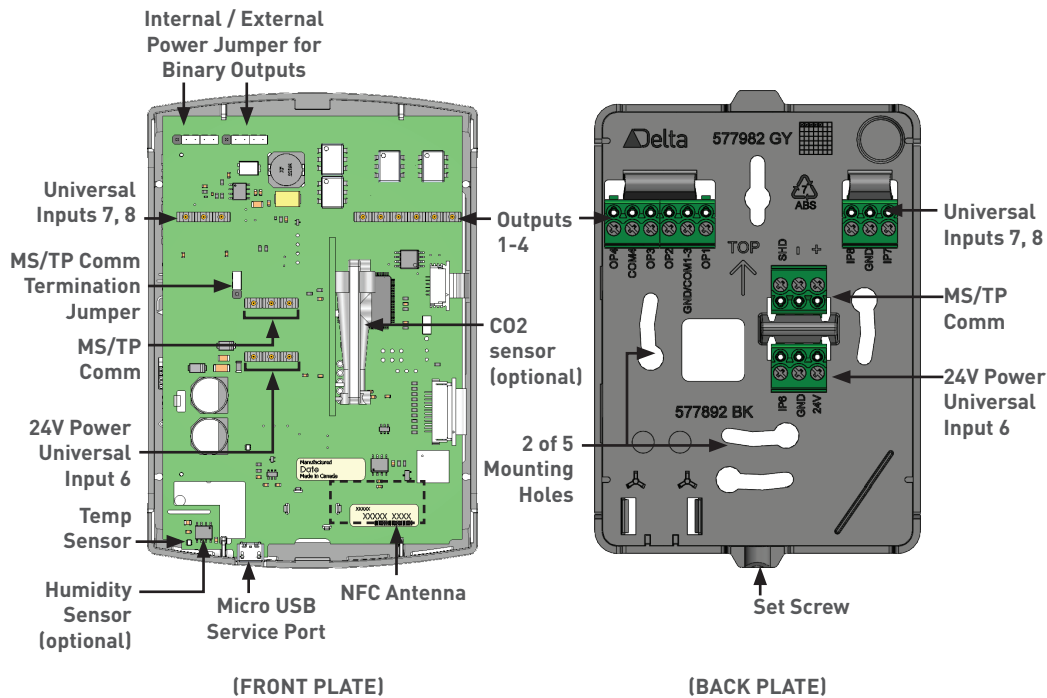
Passive infrared motion (PIR) sensor

Range: 5m (16.4 ft.)

Coverage: 100° Horizontal

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eZNT-T304: Board Layout Diagram



Specifications (Continued)

Connectors

Screw-type terminal connectors

Wiring Class

Class 2 / SELV

Power

24 V AC/DC
Typ. 4 VA / 1.2 W
Max. 52 VA / 72 W

Communications

RS-485 port
BACnet MS/TP (up to 76800 bps)

USB Service Port

Near Field Communication (NFC)
Passive 2-way short range

Ambient

0° to 55°C (32° to 131°F)
10 - 90% RH (non-condensing)

Dimensions

With SM backplate:
13.3 x 9.3 x 2.3 cm (5.3 x 3.6 x 0.9 in.)

With SC (CO₂) backplate:
13.3 x 9.3 x 4.3 cm (5.3 x 3.6 x 1.7 in.)

Mounted Surface Profile

Surface Mount (SM, SC backplates):
2.3 cm (0.9 in.)

Weight

175 g (0.39 lbs)

IP Rating

IP20

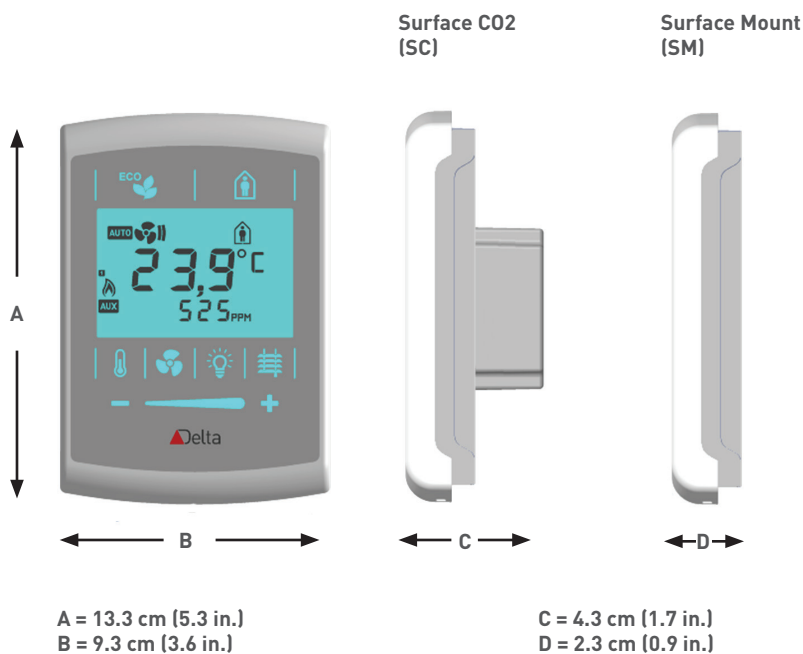
Compliance

CE
FCC Class B

Listings

UL 916 Listed

eZNT-T304: Dimensions and Backplate Options



Subject to change without notice.

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Ordering

The product number of the eZNT-T304 is eZNT-T304aaa-B-cc-ddd-eee where the letters correspond to the different options listed below:

Sensor Options (aaa-)

C	CO ₂ Only
HM	Humidity and Motion
CHM	CO ₂ , Humidity and Motion

Backlit Display (-B-)

B	RGB Backlit Display / Buttons is a standard feature
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Backplate Options (-cc-)

SC	CO ₂ ¹
SM	Surface Mount

¹CO₂ sensor options require CO₂ backplate.

Button Overlay Options (-ddd-)

###	Standard Button Overlay Number
###	Library Button Overlay Number ²
999	Custom Button Overlay ³

²See eZNS Button Overlay Design Guide. Expect up to 8 weeks for delivery. Additional charges apply.

Button Overlay and Plastic Color Options (-eee-)

WWG	White Button Overlay, White Front with Grey Backplate (default)
GWG	Grey Button Overlay, White Front with Grey Backplate
BBB	Black Button Overlay, Black Front with Black Backplate
Custom	Custom Color Options ³

³Contact inside sales for pricing and more information.

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eZNT-T304: Standard Button Overlay Options



Overlay 003



Overlay 005



Overlay 009



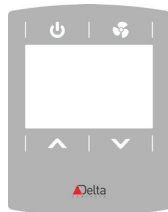
Overlay 015



Overlay 017



Overlay 045



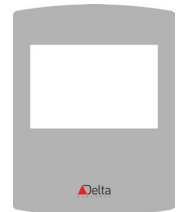
Overlay 046



Overlay 047



Overlay 053



Overlay 100

eZNT-T304: Color Options



WWG: White Button Overlay, White Front, Grey Back



GWG: Grey Button Overlay, White Front, Grey Back



BBB: Black Button Overlay, Black Front, Black Back