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Network Sensors: eZNT-T100

Description

The eZNT-T100 adds an MS/TP network sensor option to the enteliZONE line of sensors and thermostats. The eZNT-T100 gives building occupants an intuitive touch-interface to adjust individual comfort levels while tailoring to the needs of their specific market. Featuring a universal input and a standard temperature sensor with humidity, CO_2 and motion options, the eZNT-T100 also offers a choice of backlit colors to provide additional user feedback and esthetic appeal.

The eZNT NFC technology allows installers to use NFC-enabled mobile devices to configure the sensor on the wall or in its shipped box.

Application

The eZNT-T100 has the same sensing functionality as the eZNS-T100 but instead communicates on an MS/TP network that allows easy integration with other Delta or third-party MS/TP networks. The eZNT-T100 is suitable for a wide range of sensing applications, from basic temperature monitoring, to indoor air quality and occupancy sensing. A customizable interface allows for intuitive user interaction.

The external universal input allows for additional zone monitoring such as window or door contact, external motion sensor for larger rooms, temperature averaging or other local sensor information.

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 button and screen interactions through GCL+ programming

▶ Support for local scheduling, trending and alarming

▶ 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

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

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%

CO_2 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

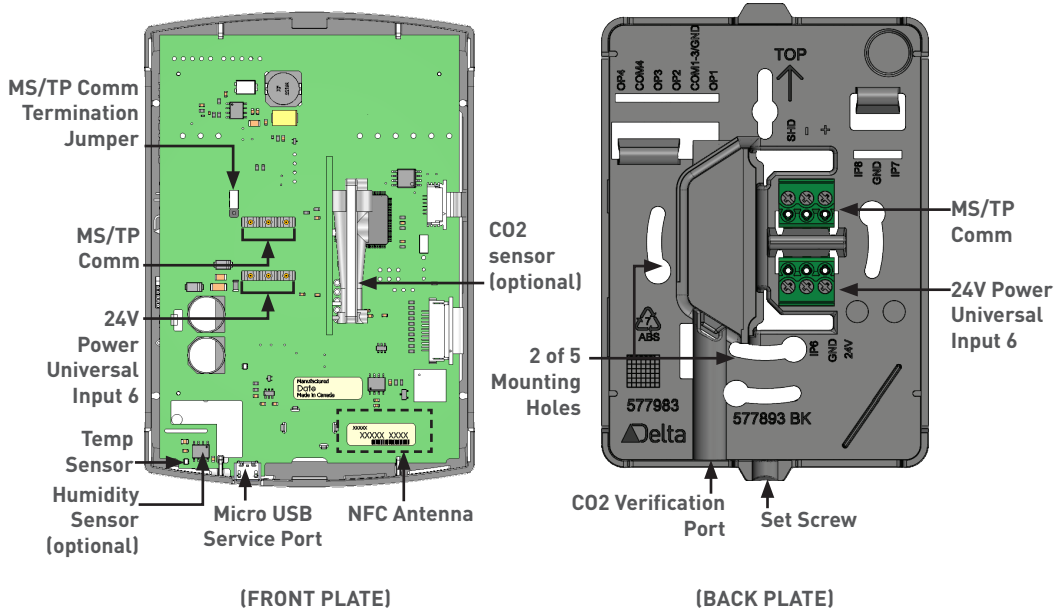Range: 5m (16.4 ft.)

Coverage: 100° Horizontal

Connectors
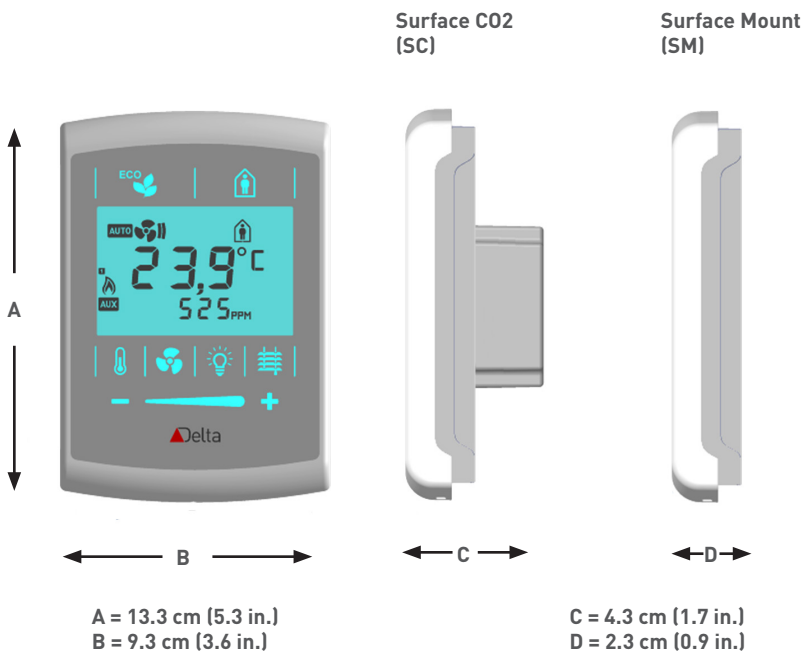Screw-type terminal connectors

Wiring Class
Class 2 / SELV

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eZNT-T100: Board Layout Diagram

MS/TP Comm Termination Jumper

MS/TP Comm

24V Power Universal Input 6

Temp Sensor

Humidity Sensor (optional)

Micro USB Service Port

NFC Antenna

CO2 sensor (optional)

2 of 5 Mounting Holes

(FRONT PLATE)

OP4 · COM4 · OP3 · OP2 · COM1-3/GND · OP1

TOP

SHD

IP6 · GND · IP7

MS/TP Comm

IP5 · GND · 24V

24V Power Universal Input 6

577983

577893 BK

CO2 Verification Port

Set Screw

(BACK PLATE)

eZNT-T100: Dimensions and Backplate Options

Surface CO2 (SC)

Surface Mount (SM)

A

B

C

D

A = 13.3 cm (5.3 in.)
B = 9.3 cm (3.6 in.)

C = 4.3 cm (1.7 in.)
D = 2.3 cm (0.9 in.)

Specifications (Continued)

Power
24 V AC/DC
4 VA / 1.2 W

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

USB Service Port
Used as virtual Com port to connect the BACnet® network to a workstation

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 (CO_2) 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

Subject to change without notice.

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Ordering

The product number of the eZNT-T100 is eZNT-T100aaa-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

Backplate Options (-cc-)

SC	CO_2[1]
SM	Surface Mount

[1]CO_2 sensor options require CO_2 backplate.

Button Overlay Options (-ddd-)

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

[2]See 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]

[3]Contact inside sales for pricing and more information.

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eZNT-T100: Standard Button Overlay Options

Overlay 003

Overlay 005

Overlay 009

Overlay 015

Overlay 027

Overlay 045
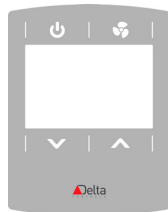
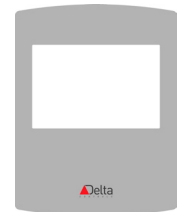**Overlay 046**

Overlay 047

Overlay 053

Overlay 100

eZNT-T100: 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

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