



Network Sensors: eZNS-T100

Description

The eZNS-T100 network sensor offers building occupants an intuitive touch interface to adjust individual comfort levels while tailoring to the needs of their specific market. Featuring a standard temperature sensor with humidity, CO₂ and motion options, the eZNS also offers a choice of backlit colors to provide additional user feedback and esthetic appeal.

The eZNS sensor's NFC technology allows installers to use NFC-enabled mobile devices to configure the eZNS and enable enteliWEB integration.



Application

The eZNS 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.

An available external input allows for additional zone monitoring such as window or door contact, temperature averaging or other dry contact sensor information.

When paired with an application controller, the eZNS supports advanced control strategies, such as demand control ventilation, energy savings based on occupancy and optimal user comfort.

Features

- ▶ RGB backlight allows choice of colors to indicate conditions, alarms and night mode
- ▶ Large easy-to-read LCD screen. On-screen visual feedback on button selection.
- ▶ Capacitive touch zones allow custom button sizes
- ▶ Multiple button layout options. Simple one-touch buttons, or two-touch buttons for added functionality.
- ▶ Slider to quickly adjust setpoint or tap for precise changes
- ▶ Fully programmable in GCL+
- ▶ 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
- ▶ Two-piece design with tamper set screw lock

Specifications

Inputs

1 10 k Ω input

LCD (Optional)

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 (Optional)

Optional RGB LED backlight for multi-color LCD and button illumination

Temperature

Digital temperature sensor
 $\pm 0.2^{\circ}\text{C}$ ($\pm 0.36^{\circ}\text{F}$)

Humidity Sensor (Optional)

Accuracy $\pm 3\%$

CO₂ Sensor (Optional)

Dual-channel NDIR detection
Range: 0–2000 ppm
Accuracy (@ 25°C (77°F)): $\pm (30 \text{ ppm} + 3\% \text{ of value})$

Occupancy Sensor (Optional)

Passive infrared motion (PIR) sensor
Range: 5 m (16.4 ft)
Coverage: 100° horizontal

Connectors

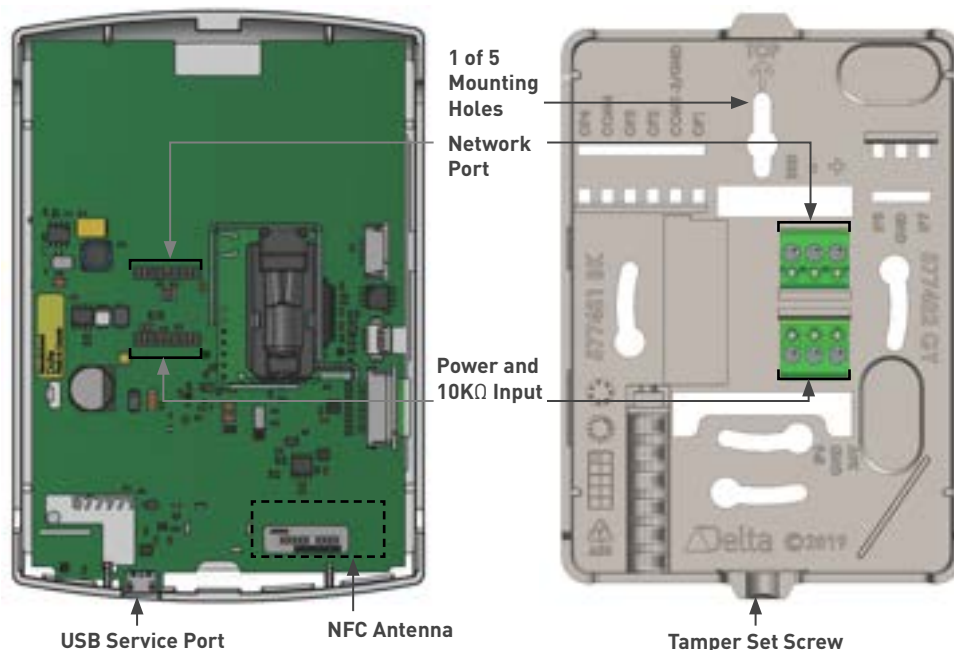
Screw-type terminal connectors

Wiring Class

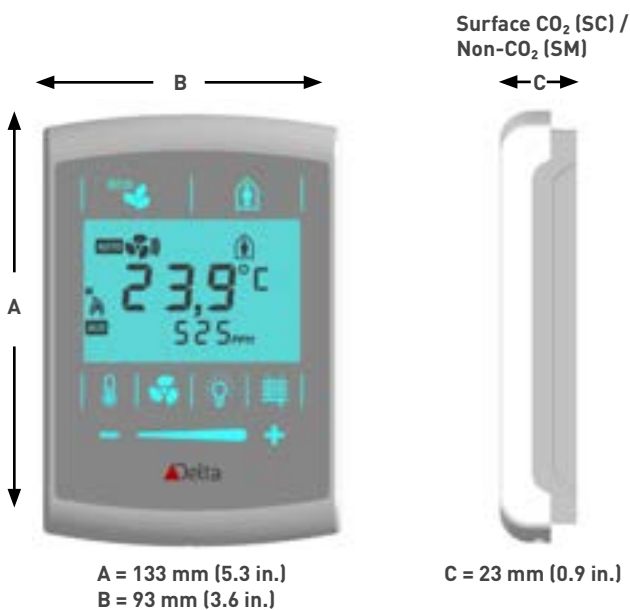
Class 2 / SELV

enteliZONE®

eZNS-T100: Board Layout Diagram



eZNS-T100: Dimensions and Backplate Options



Specifications (Continued)

Power

24 V AC/DC
 2 VA / 1.2 W Max (eZNS-T100CHM-B)

Technology

32-bit processor
 Internal A/D, Flash and RAM

Communications

RS-485 port
 Delta LINKnet (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°C to 55°C (32°F to 131°F)
 10% to 90% RH (non-condensing)

Dimensions

With SM or SC backplate: 133 × 93 × 23 mm (5.3 × 3.6 × 0.9 in.)

Weight

165 g (0.36 lb)

IP Rating

IP20

Compliance

CE
 FCC Class B

Listings

UL 916 Listed

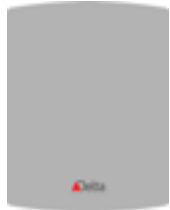
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Updated May 2024

Subject to change without notice.

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eZNS-T100: Standard Button Overlay Options



Overlay 000



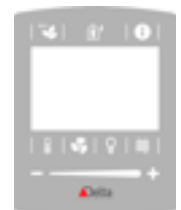
Overlay 003



Overlay 005



Overlay 009



Overlay 045



Overlay 046



Overlay 047



Overlay 053



Overlay 100

eZNS-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



eZNS-T100-B-SM-045-WWG



eZNS-T100-ND-SM-000-WWG

Ordering

The product number of the eZNS-T100 is eZNS-T100aaa-bb-cc-ddd-eee, where the letters correspond to the different options listed below:

Sensor Options (-aaa-)

C	CO ₂
H	Humidity
M	Motion
HM	Humidity and Motion
CH	CO ₂ and Humidity
CM	CO ₂ and Motion
CHM	CO ₂ , Humidity and Motion

Display Options (-bb-)

B	RGB Backlit Display / Buttons
NB	No Backlighting
ND	No Display

Backplate Options (-cc-)

SC	Backplate for CO ₂ Models ¹
SM	Backplate for Non-CO ₂ Models

¹eZNS CO₂ models uses a CO₂ sensor that allows for flush wall mounting, however requires a SC backplate not compatible with the non-CO₂ SM backplate.

Button Overlay Options (-ddd-)

###	Standard Button Overlay Number
###	Library Button Overlay Number ²
000	Blank Overlay (No Display)
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.

Accessories

400662	eZNSx Foam Back Insulator (For SM and SC Backplates)
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