

TZ100-LX User Room Sensor

ONYXX® LX-TZ | PRODUCT DATA SHEET

Designed and assembled in Canada

Description

- ✓ Room user digital wall sensor complementary to the controllers from the Onyx LX product line
- ✓ Displays user data and information such as time, temperature, and requests for heating and cooling through a backlit LCD display
- ✓ Communicates to the controllers using a proprietary RS-485 protocol. One TZ100-LX or TZ200-LX room sensor per controller can be wired when used with the Onyx LX controllers
- ✓ Has a local BACnet MS/TP USB port for network access
- ✓ Requires an Onyx LX USB to RS-485 adapter, with a miniUSB to microUSB adapter to configure devices on the trunk with Onyx LX UI
- ✓ To order use part number: **TZ100-LX**

ONYXX® LX
by Lynxspring



Application

This sensor is designed to facilitate simple user interactions typically used in the HVAC industry for terminal equipment control. It allows powerful yet flexible solutions that can be tailored and sized according to any project need.

Technical Specifications

POWER SUPPLY

24 Vac/dc \pm 15%

CURRENT CONSUMPTION

1.0 VA room sensor only

MICROPROCESSOR

STM32 (ARM Cortex™ M3)
32 bits, 64 MHz

MEMORY

Flash: 64 KB non-volatile
RAM: 10 KB

EXTERNAL CONNECTIONS

Mini USB Type-A connector allows local access to the MS/TP network.
Requires the USB to RS-485 adapter: USB-MSTP-LX.

BACKLIGHT DISPLAY / LCD

Multi-HVAC system symbols, time display, 4 segment main numeric display with one decimal

COMMUNICATION PROTOCOLS

Proprietary RS-485 protocol to controller

BAUD RATE TO CONTROLLER

9600, 19200, 38400, 76800 default, 115200, 230400 & 460800 Bps

ROOM SENSOR ADDRESSING

Via DIP switch

DIMENSIONS

B 123 mm x A 73 mm x 24 mm
B 4.85 in. x A 2.85 in. x 1.0 in.

MAXIMUM WIRE SIZE

16 AWG

STOCKING TEMPERATURE

-30 °C to 50 °C / -22 °F to 122 °F

OPERATING CONDITIONS

-25 °C to 45 °C / -13 °F to 113 °F
10% to 90% rH without condensation

WEIGHT

120 g. / 0.25 lb.

MOUNTING TYPE

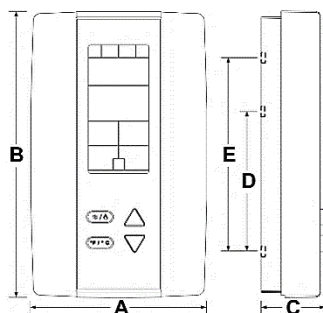
Standard 2 in. x 4 in. electrical junction box

WARRANTY

1 year

ENCLOSURE

White color, ABS material UL94VO



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