



Description

- ▶ The Tzone is a room user digital wall sensor complementary to the BACzone (424 & 122), the BACplus-MSTP & the BAC-MSTP controllers from the Strato Automation product line. It displays user data and information such as time, temperature and requests for heating and cooling through a backlit LCD display
- ▶ It communicates to the controllers using a proprietary RS-485 protocol. Up to 3 Tzone room sensor per controller can be wired when used with the Strato Zoning System and up to 8 Tzone room sensor per controller can be wired when used with the Strato Enterprise Solution
- ▶ It has 1 local AI and 1 local BI for various extra functions
- ▶ It has a local BACnet MSTP USB port for network access
- ▶ To order use part number: TZ200 as per table below

Model number	Built-in humidity sensor	Built-in PIR motion sensor	Built-in CO2 NDIR sensor
TZ200			
TZ200MH	√	√	
TZ200HC	√		√
TZ200MHC	√	√	√

Application

This controller 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 needs.

Technical specifications

Power supply:

24 Vac/Vdc ± 15%

Current consumption:

1.0 VA room sensor only

Inputs:

1 x AI input

- Thermistor 10KΩ (type 2 or 3)
- Dry contact, 500 ms minimum (On-Off)
- Resolution: 12 Bits (4096 segments)

1 x BI input

- Dry contact, 500 ms minimum (On-Off)

Microprocessor:

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

Memory:

- Flash: 64 KB non-volatile
- RAM: 10 KB

External connections:

Mini USB2 connector allows local access to the MS/TP network

Requires a Strato Automation USB-485 cable adapter

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:

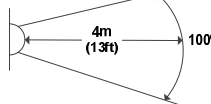
Addressing via DIP switch

Humidity sensor (Sensirion SHT31)

±2 @ 0-100% RH

PIR sensor

- Operating Principle: Passive Infrared
- Detection Angle: 100 degrees
- Detection Distance: 4M (13ft) maximum
- Detection Area



CO2 sensor Sensirion SCD30

- Operating Principle: Self calibrating, non-dispersive infrared (NDIR)
- Sensor Range: 0-5000 PPM
- Accuracy: ± 30 PPM @ 3% of reading
- Accuracy is valid after a minimum of 3 weeks of continuous operation
- Response Time T63: 2 minutes

Backlight display / LCD

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

Dimensions:

B 83 mm x A 124 mm x 20 mm
B 3,25" x A 4,88" x 0,8"

Max. wire size:

16 awg

Stocking temperature:

-30 °C to 50 °C / -22 °F to 122 °F

Operating conditions:

0 °C to 50 °C / 32 °F to 122 °F
10% to 90% H.R. without condensation

Weight:

120 g / 0.25 lb

Mounting type:

Standard 2" x 4" electrical junction box

Warranty:

1 year

Enclosure:

White color, ABS material UL94VO

Certifications:

UL 916 Energy Management Equipment

