

tSENSE VAV Disp



CO₂, Temperature and RH sensor with colour touch display

tSENSE VAV is an advanced and versatile three-in-one controller designed for installation in the air-conditioned zone. The unit measures CO₂ concentration, temperature and humidity in the ambient air accurately without need for additional compensation - true read.

tSENSE VAV combines all the necessary elements for effective climate control in commercial office buildings, hospitals, hotels, schools and other facilities. Using CO₂-monitoring for demand control ventilation (DCV) allows healthy, comfortable and cost-effective environment for the occupants. It is flexible in design with temperature control and combination of humidity control optional. Though suitable for use in many different energy-efficient ventilation strategies, Senseair welcomes any discussions for specific needs.

Standard specification

Measured gas	Carbon dioxide (CO ₂)
Operating principle	Non-dispersive infrared (NDIR)
Measurement range	0–2000ppm
OUT1 VAV Output	0–10VDC
CO ₂	600–900ppm
Temperature	22–23 °C
Relative humidity	75–85% RH
OUT2 CO ₂	0–10VDC, 0–2000ppm
OUT3 Temperature	0–10VDC, 0–50 °C
Relay CO ₂	On ≥ 1000ppm _{vol} Off ≤ 900ppm _{vol}
Accuracy (CO ₂)	±30ppm ±3% of reading
Dimensions	12 x 85 x 22mm
Dimensions display	49 x 37mm
Life expectancy	> 15 years
Operation temperature range	0–50 °C
Power supply	12VDC, 24VAC/VDC
Communication	Modbus (MB) or BACnet (BAC) protocol over RS485

Key benefits

- Maintenance-free
- Compliant with ANSI/ASHRAE Standard 62.1-2022
- Compliant with RESET grad B
- Compliant with WELL Building Standard® (WELL v2™)
- Three sensors in one housing: CO₂, temp and RH
- Colour touch display
- Simplified control function
- PIN codes for access to display- and meter settings
- Flexibility: shows CO₂ and Temperature / Humidity
- Improved housing design for effective measurement



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Senseair

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