

# tSense

## SenseAir CO2, temperature & RH Detector

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### overview

#### Part Numbers:

ESSE-34: tSense CO2, temperature and humidity detector with no LCD display

ESSE-35: tSense CO2, temperature and humidity detector with LCD display



- **CO2, Temperature, % Relative Humidity**
- **Easy configuration via LCD touch screen**



- **All industry-standard outputs**
- **Ideal for schools, offices and buildings**

SenseAir's tSense CO<sub>2</sub>, humidity and temperature sensor is a high class, European designed and manufactured solution for quality HVAC monitoring. It is available with or without an LCD color touch screen display.

With a display, the tSense can show you the CO<sub>2</sub>, temperature or %RH levels in real-time. With a touch you can program the tSense display model to change color when the CO<sub>2</sub>, temperature or %RH levels get too high, or you can view graphs of CO<sub>2</sub>, temperature or %RH for the previous day or week. All settings can be controlled with a secret pin number you enter during setup.

With or without a display, both tSense models feature several industry-standard output options including 0-10VDC for each of the 3 parameters, NO and NC relays, Modbus and BACnet. All options can be configured with the free UIP software.

## specifications

### general specifications

- NDIR CO<sub>2</sub> + Temperature & Humidity
- 0-2,000 ppm CO<sub>2</sub>, 0-50°C, ±5% RH
- Accuracy (CO<sub>2</sub>): ±30ppm ±3% of reading
- Dimensions: 125mm x 85mm x 22mm
- Dimensions (display): 49mm x 37mm
- Life expectancy: >15 years
- Operation temperature: 0 – 50°C
- Sensor Life Expectancy: 15 years
- ABC (Automatic Background Calibration) is enabled but can be used programmed/disabled

### outputs

- OUT1 CO<sub>2</sub> 0-10VDC, 0-2000ppm
- OUT2 Temperature 0-10VDC, 0-50°C
- OUT3 Relative Humidity 0-10VDC, 0-100%RH



- Modbus/BACnet over RS485
- Programmable Relay

#### electrical requirements

- 12VDC / 24 VAC/VDC

#### warranty

- 1 year

## manual & docs

- [Download tSense Manual](#)
- [Download tSense Installation Guide](#)

## related products

- [HVAC detectors and transmitters](#)
- [CO2 detectors and meters](#)
- [Oxygen detectors and meters](#)
- [A complete range of gas detectors and meters](#)