

Environmental Sensor

Model# EES-THo2-Z3

Features

- Detection with 0-2000ppm range
- 0-5000ppm/0-50000ppm range selectable
- NDIR infrared CO sensor with more than 10 years lifetime
- Patented self-calibration algorithm
- Optional temperature and humidity detection
- Provide up to 3x analog linear outputs for measurements
- Optional LCD display of CO₂ and temperature and humidity
- 24VAC/VDC power supply
- EU standard and CE-approval



Specifications

CO Measurement

Sensing element	Non-Dispersive Infrared Detector (NDIR)
CO ₂ range	0~2,000 ppm range 0~5,000 ppm/0~50,000 ppm optional
CO ₂ accuracy	± 30 ppm + 3% of reading @22°C (72°F)
Temperature dependence	0.2% FS per °C
Stability	<2% of FS over life of sensor (15 year typical)
Pressure dependence	0.13% of reading per mm Hg
Calibration	ABC Logic Self Calibration Algorithm
Response time	<2 minutes for 90% step change typical
Signal update	Every 2 seconds
Warm-up time	2 hours (first time) / 2 minutes (operation)

Temperature

Measuring range	0°C~50°C (32°F~122°F) (default)
Accuracy	± 0.4°C (20°C~40°C)

Humidity

Measuring range	0-100% RH
Accuracy	± 3% RH (20%-80%RH)