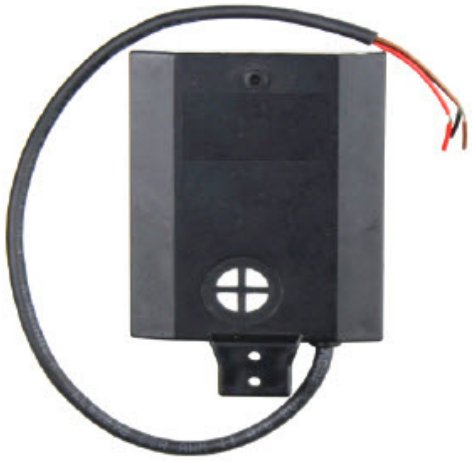
GS-TR9291 Series

In-Duct CO_2 Sensors



Overview

The GS-TR9291 sensors are quality-engineered CO_2 transmitter targeted at applications where a dependable CO_2 sensor is required that never needs calibration.

Applications

- Commercial buildings
- Schools and universities
- Retail
- Theaters, auditoriums, gyms, churches
- Hospitality venues

Features & Benefits

- Internal self-calibration method based on background measurement that also eliminates need for outdoor CO_2 sensor
- Choice of outputs: 0-10V, 0-5V or 4-20mA
- Built to ISO 9001 standards
- Utilizes a proven infrared measurement technology with over 18 years of flawless operating history.

Model Selection

GS-TR9291-A	Duct-Mounted Self-Calibrating CO_2 Transmitters (0-5V, 4-20mA output)
GS-TR9291-B	Duct-Mounted Self-Calibrating CO_2 Transmitters (0-10V, 4-20mA output)

Product Specifications

General

CO_2 Detection Method	Gold Plated Non-Dispersive Infrared Optical Sensor with Automatic Baseline Correction for Self-Calibration, 4.8” optical path length, diffusion sampling
Certification	CE, EMC89/336/EEC, CA Energy Commission, NYSERDA, LonMark® Certified (V3.4)
Transmitter Rated Life	Minimum 15 years
Operating Conditions	32 to 122º F (0 to 50ºC), 0 to 95% RH
Storage Conditions	-40 to 158º F (-40 to 70º C)

Performance

CO_2 Measurement Range	0-2000 ppm (factory adjustable to 10,000 ppm upon request)
CO_2 Accuracy	+/- 1% of measurement range +/- 3% of measured value
Calibration	Self Calibrating, Calibration is Not Required
Response Time	T90 = <2 minutes (diffusion), < 15 seconds for flow through

Power

Input	24 VAC/VDC ±20%, 50-60 hz (half-wave rectified)
Average Power Consumption	≤< 1 Watt average
Ground	Analog output transmitters must share common ground with control system

Outputs

Linear Analog Output	Two simultaneous dual output options available
□ A)	0-5V & 4-20mA
□ B)	0-10V & 4-20mA

Dimensions: GS-TR9291 (In-Duct)