

TR9300 (0% to 4%) Carbon Dioxide Transmitters For Health & Safety Applications



Wall



Wall



Duct Probe



Industrial Wall Mount

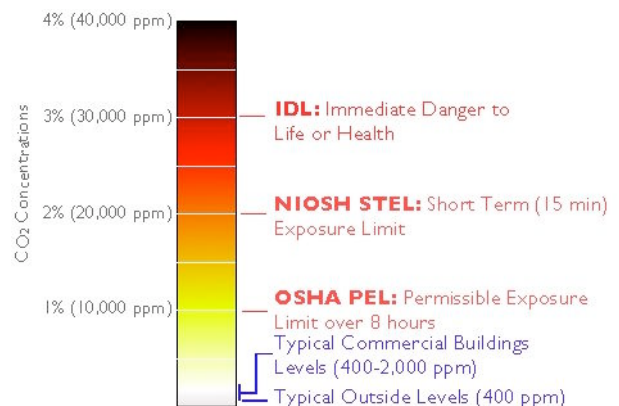
A Breakthrough In Simplicity And Cost!

- ✓ Attractive wall mount case with display for CO₂ levels. No-Display version also available.
- ✓ Temperature measurement also provided.
- ✓ Self-calibrating sensor eliminates calibration/maintenance requirements.
- ✓ Easy to install duct mount version with 8" aspiration probe. (No tubes to plug or clean.)
- ✓ Easy choice of voltage or current via jumper selection, relay output also available.
- ✓ Display, output range and scaling easily customized via a PC interface.
- ✓ Add-on communication options for Lonworks®, Modbus® RS-485 network connection.
- ✓ Option to add electrochemical oxygen depletion sensor.
- ✓ Coated Electronics and Gold plated optical sensor ensures long-term durability & stability.
- ✓ Purposefully built for quality - designed and built using Internationally Certified ISO 9001 processes.

CO₂ for Health & Safety

The 9300 series CO₂ monitor is designed to provide warning of elevated CO₂ levels that may be dangerous to health. It can be used wherever CO₂ is produced, stored, generated or used including:

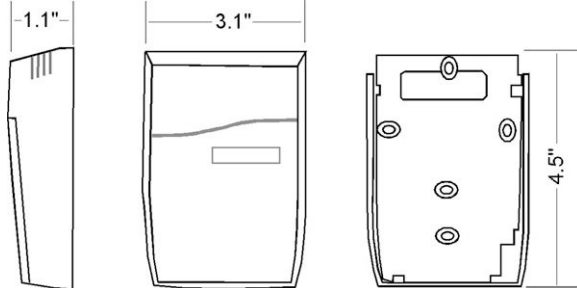
- ⇒ Detection of Combustion Fumes
- ⇒ Pubs & Microbreweries
- ⇒ Wineries & Breweries
- ⇒ Food Processing / Fast Freezing
- ⇒ CO₂ Bulk Storage For Soft Drink Dispensers in Convenience Stores & Restaurants.



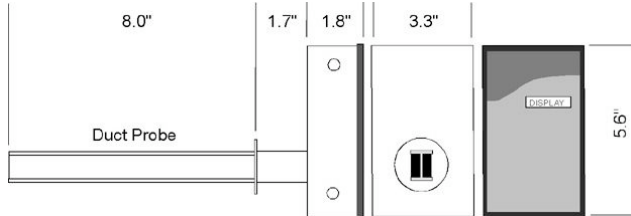
About The CO₂ And Temperature Transmitter

The TR9300 is a state of the art monitor for health and safety applications. Versions for wall or duct mount are available. Outputs are user configurable via an easy to use PC interface. The need for calibration has been eliminated through use of a unique self-calibration algorithm that has been proven in over 8 years of use.

Wall Mount



Industrial & Duct Mount



Models & Accessories

Model	Display	CO ₂ Output		Temp Output	Display Of 8 hr TWA
		Analog	Relay	Analog	
Decorative Wall Mount					
TR9301	N	Y	Y	Y	N
TR9301-L	Y	Y	Y	Y	N
Duct Mount (Aspiration Probe)					
TR9302	N	Y	Y	Y	N
TR9302-L	Y	Y	Y	Y	N
TR9304-L	Y	Y	Y	Y	Y
Industrial Wall Mount					
TR9303	N	Y	Y	Y	N
TR9303-L	Y	Y	Y	Y	N
TR9305-L	Y	Y	Y	Y	Y
Accessories					
2RT	External transducer that converts analog output to 2 adjustable relay signals (10A)				
LON	Add-on LonWorks® Communication module				
MOD	Add-on Modbus® communication module				
RS485	Add-on RS-485 communication module				
AI991	PC interface cable & software (for adjustment of output)				
OX	Electrochemical Oxygen Sensor (NA on 9301)				

Specifications

General

CO₂ Detection Method: Gold Plated Non-Dispersive Infrared Optical Sensor with Automatic Baseline Correction for Self-Calibration. Diffusion Sampling.

Certification: CE, EMC89/336/EEC

Temperature Measurement: Thermistor With Linear Output
Transmitter Rated Life: 15 years

Industrial Enclosure: Rated IP65

Operating Conditions: 32 to 122° F (0 to 50°C), 0 to 95% RH

Storage Conditions: -40 to 158° F (-40 to 70° C)

Performance

CO₂ Measurement Range: 0-4% (40,000 ppm)

CO₂ Accuracy: +/- 1% of measurement range + 5% of measured value.

Calibration: Self Calibrating, Calibration Not Required

Response Time: T₉₀ = <2 minutes (diffusion)

Temperature Measurement Accuracy: +/- 0.9° F (0.5° C)

Power

Input: 18-30 VAC, 50-60 hz (half-wave rectified)

Average Power Consumption: £ 3 Watts average

Outputs

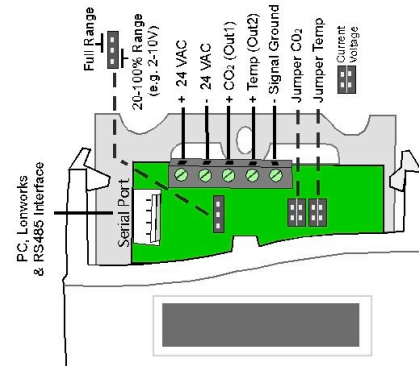
Adjustment: All outputs including display values shown, measurement range, analog output range and relay set point can be easily adjusted by the user or your distributor using a PC and the AirTest™ Interface(AI) program.

Digital Display: CO₂ Concentrations in %, Temperature in °F or °C. (User selectable with PC Interface)

Linear Analog Outputs: (CO₂ =Out1, Temp = Out2) jumper selectable for VDC or mA

0 to 10 VDC R_{OUT} < 100 ohm, 0 to 5 VDC R_{LOAD} >5k ohm,
4 to 20 mA R_{LOAD} < 500 ohm

Relay: Isolated, NO, 1mA/5V up to 1A/50VAC/24VDC (factory preset at 5,000 ppm)



Covered By US Patents: 6194735, 6016203, other patents pending



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