

Multi-Gas Sensor

Real-time Duct Air Monitoring



Applications

- Connet to a PLC/DDC for ventilation or BMS systems
- Ideal for smart buildings & industrial environments
- Sterilization and disinfection / Health supervision / Fruit and vegetable ripening etc

Product No: TG9-GAS

Features

- Simultaneous detection of single gas or two gases in air ducts
- High-precision electrochemical gas sensors with built-in temperature compensation, humidity detection is optional
- Built-in a sampling fan for stable air flow, 50% faster response time
- RS485 interface with Modbus RTU protocol or BACNet MS/TP protocol
- One or two 0-10V/ 4-20mA analog linear outputs
- Sensor probe is replaceable, supporting both inline and split mounting.
- A waterproof breathable membrane built in the sensor probe, making it suitable for more applications
- 24VDC power supply



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Specifications

General Data	
Power Supply	24VAC/VDC $\pm$ 20%
Power Consumption	2.0W (average power consumption)
Wiring Standard	Wire section area <1.5mm ²
Working Condition	-20~60℃/ 0~98%RH (no condensation)
Storage Conditions	-20℃~35℃, 0~90%RH (no condensation)
Dimensions/ Net Weight	85(W)X100(L)X50(H)mm / 280g Probe: 124.5mm ϕ 40mm
Qualify standard	ISO 9001
Housing and IP class	PC/ABS fireproof plastic material, IP40
Ozone(O3) Sensor Data (Choose either O3 or NO2)	
Sensor	Electrochemical sensor with >3 year lifwtime
Measurement range	10-5000ppb
Output resolution	1ppb
Accuracy	<10ppb + 15% reading
Carbon Monoxide(CO) Data	
Sensor	Electrochemical sensor with >5 year lifwtime
Measurement range	0-500ppm
Output resolution	1ppm
Accuracy	< $\pm$ 1 ppm + 5% of reading
Nitrogen Dioxide(NO2) Data (Choose either NO2 or O3)	
Sensor	Electrochemical sensor with >3 year lifwtime
Measuring Range	0-5000ppb
Output Resolution	1ppb
Accuracy	<10ppb+15% of reading
Outputs	
Analog Output	One or two 0-10VDC or 4-20mA linear outputs



Analog Output Resolution	16Bit
RS485 communication Interface	Modbus RTU or BACnet MS/TP 15KV antistatic protection

NOTE:
Optional sensing parameter: formaldehyde.
The above are standard measurement ranges, and other ranges can be customized.

Models Guide

TG9-GAS- X 0 1/2-AB-L

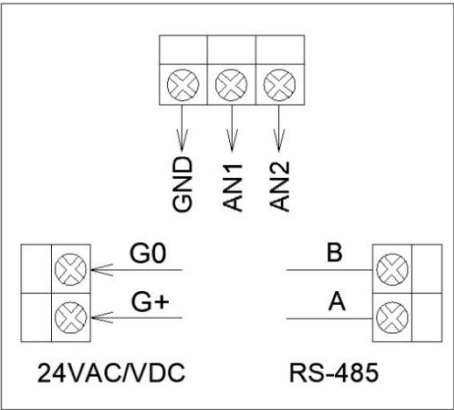
X: Analog linear output
0: no analog output
1: 1x analog linear output for a gas measurement
2: 2x analog linear outputs for two gases measurements

1: RS485 interface, Modbus RTU
2: RS485 interface, BACnet MS/TP

A: GAS 1
M: CO
0: no CO
B: GAS 2
Z: O3
N: NO2
F: HCHO (customizable)
0: no O3/NO2/HCHO

L: LCD display (option)

Wiring Diagram





Structure and Dimentions

