

Ozone/CO Controller for Split-Type Sensor Probe



Applications

- Real time measure environmental ozone concentration
- Control ozone generator or ventilator
- Detect ozone data and connect to BAS system
- Sterilization and disinfection / Health supervision / Fruit and vegetable ripening etc
- Carbon monoxide is optional

Product No: TKG-GAS

Features

- Real time monitoring air concentration of ozone or carbon monoxide
- Monitoring and display temperature and humidity
- Electrochemical ozone and carbon monoxide sensors with temperature compensation
- Split installation for display controller and external sensor probe which can be extended into Duct / Cabin or placed in any other location.
- A built-in fan in the gas sensor probe to ensure uniform air volume
- Gas sensor probe is replaceable
- 1xON/OFF relay output to control a gas generator or a ventilator
- 1x0-10V or 4-20mA analog linear output for the gas concentration
- RS485 Modbus RTU communication
- Buzzer alarm available or disable
- 24VDC or 100-240VAC power supply
- Sensor failure indicator light



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Specifications

General Data	
Power Supply	24VAC/VDC±20% or 100~240VAC selectable in purchasing
Power Consumption	2.0W (average power consumption)
Wiring Standard	Wire section area <1.5mm ²
Working Condition	-20~50℃/ 0~95%RH
Storage Conditions	0℃~35℃,0~90%RH (no condensation)
Dimensions/ Net Weight	Controller: 85(W)X100(L)X50(H)mm / 230g Probe: 151.5mm ϕ 40mm
Connect cable length	2 meter cable length between controller and sensor probe
Qualify standard	ISO 9001
Housing and IP class	PC/ABS fireproof plastic material, Controller IP class: IP40 for G controller, IP54 for A controller Sensor probe IP class: IP54
Temperature and humidity	Monitoring range Temp./RH: -20~60℃ (-4~140°F) /0~99%RH
Sensor Data	
Sensing Element	Electrochemical sensors
Optional sensors	Ozone or/and carbon monoxide
Ozone Data	
Sensor lifetime	>3 years, sensor probe replaceable
Warm up Time	<60 seconds
Response Time	<120s @T90
Measuring Range	0-1000ppb(default)/5000ppb/10000ppb optional
Accuracy	±20ppb + 5% reading or ±100ppb (whichever is greater)
Display Resolution	1ppb (0.01mg/m ³)
Stability	±0.5%
Zero Drift	<2%/year
Carbon Monoxide Data	



Sensor Lifetime	» 5 years, sensor probe replaceable
Warm Up Time	<60 seconds
Response Time(T90)	<130 seconds
Signal Refreshing	One second
CO Range	0-100ppm (Default)/0-200ppm/0-300ppm/0-500ppm
Accuracy	<±1 ppm + 5% of reading (20°C/ 30~60%RH)
Stability	±5% (over 900 days)
Outputs	
Analog Output	One 0-10VDC or 4-20mA linear output for ozone detection
Analog Output Resolution	16Bit
Relay dry contact Output	One relay output Max switching current 5A (250VAC/30VDC), resistance Load
RS485 communication Interface	Modbus RTU protocol with 9600bps (default) 15KV antistatic protection
Buzzer alarm	Preset alarm value Enable / Disable preset alarm function Turn off alarm manually through buttons

NOTE:

The above are standard measurement ranges, and other ranges can be customized.

Models Guide

TKG-G A S- M/L X Y 1-C/D

GA: Gas sensing

O3: ozone

CO: carbon monoxide

GA: ozone plus CO

M/L: IP rating

M: IP 54, no LCD display

L: IP40, with LCD display (default)

Optional item. No M/L indication means default

X: Analog linear output

- 0: no analog output
- 1: 1x analog linear output for ozone or CO (preset)

Y: Relay dry contact output

- 0: no dry contact output
- 1: 1x dry contact output, LCD display

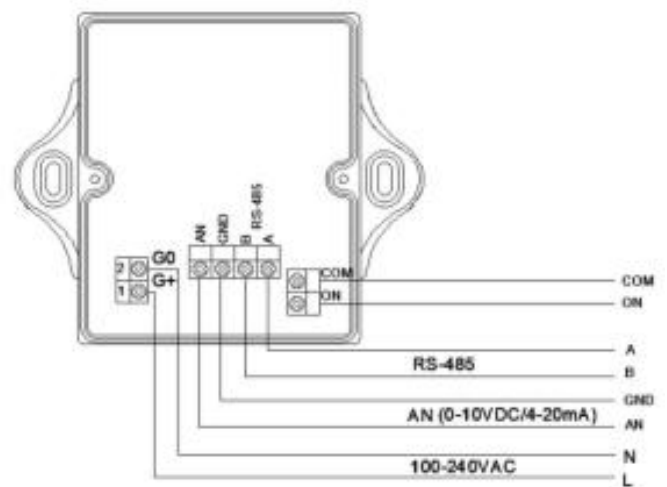
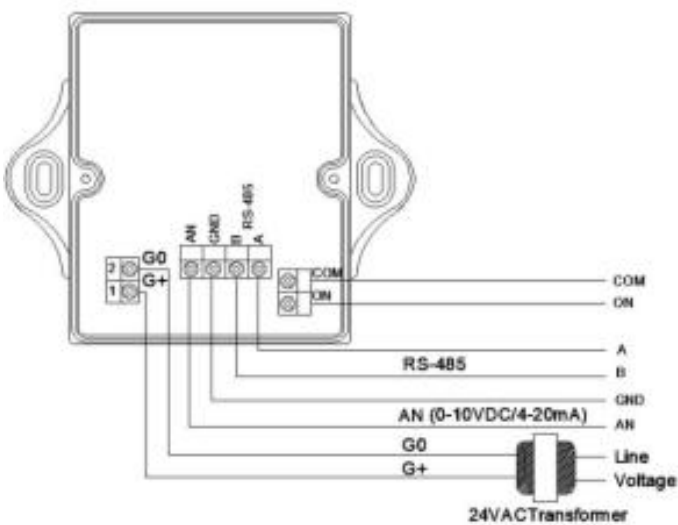
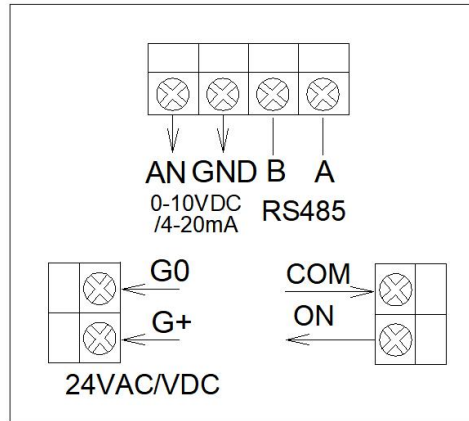
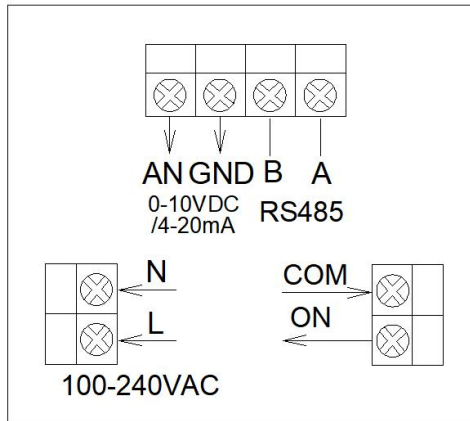
1: RS485 interface, Modbus RTU

D/C: Power supply

C: 24VDC/VAC

D: 100~240VAC

Wiring Diagram



Mounting Diagram

