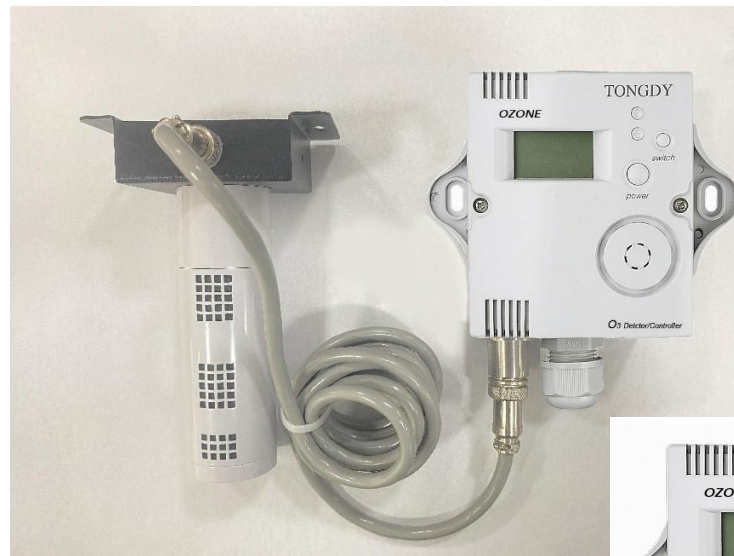


Ozone Split Type Controller



Product No: TKG-O3S

Features

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

Applications

- Real time measure environmental ozone concentration
- Control ozone generator or ventilator
- Detect ozone data and connect to BAS system
- Sterilization and disinfection /



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info@tongdy.com

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
Sensor Data	
Sensing Element	Electrochemical Ozone sensor
Sensor lifetime	>3 years, Sensor probe replaceable
Warm up Time	<60 seconds
Response Time	<120s @T90
Signal Update	1s
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
Humidity Detection (option)	1~99%RH
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 to control ozone concentration 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

Models Guide

TKG-O3S-G/A X Y 1-C/D-RH-Z

G/A: Controller type

- G: general controller with LCD and IP40 class
- A: special controller without LCD and IP54 class

X: Relay dry contact output

- 0: no dry contact output
- 1: 1x dry contact output

Y: Analog linear output

- 0: no analog output
- 1: 1x analog linear output for ozone measurement

1: RS485 interface, Modbus RTU

D/C: Power supply

- C: 24VDC/VAC
- D: 100~240VAC

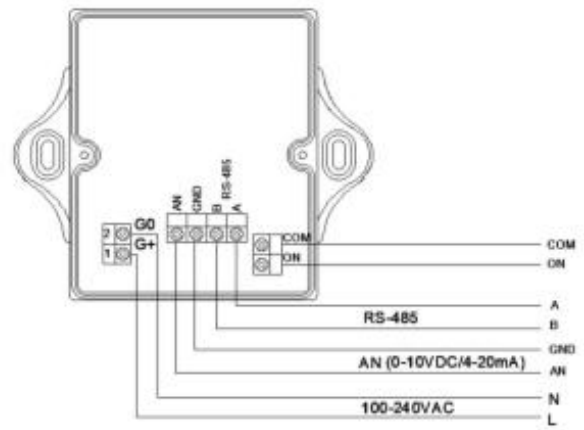
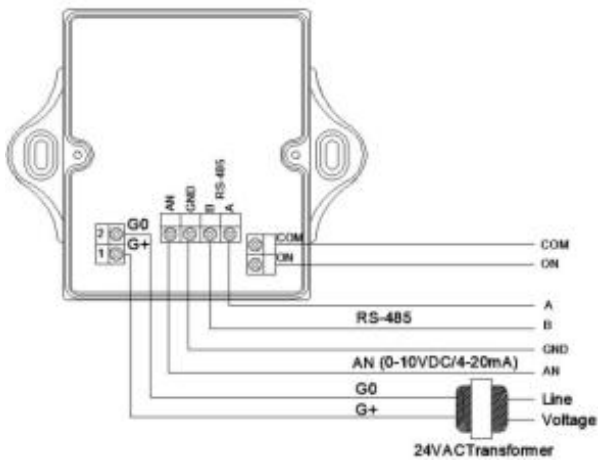
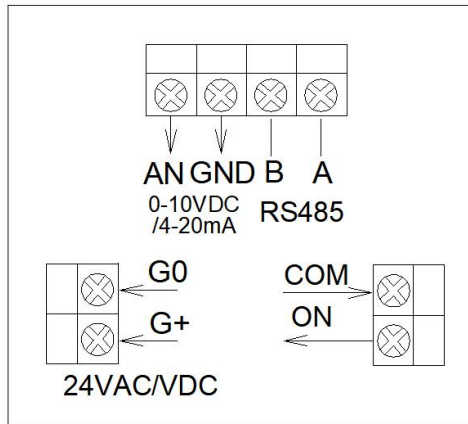
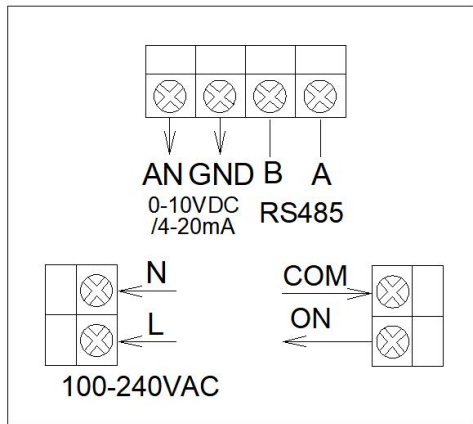
RH: Humidity detection

- No "RH" indicates without humidity detection

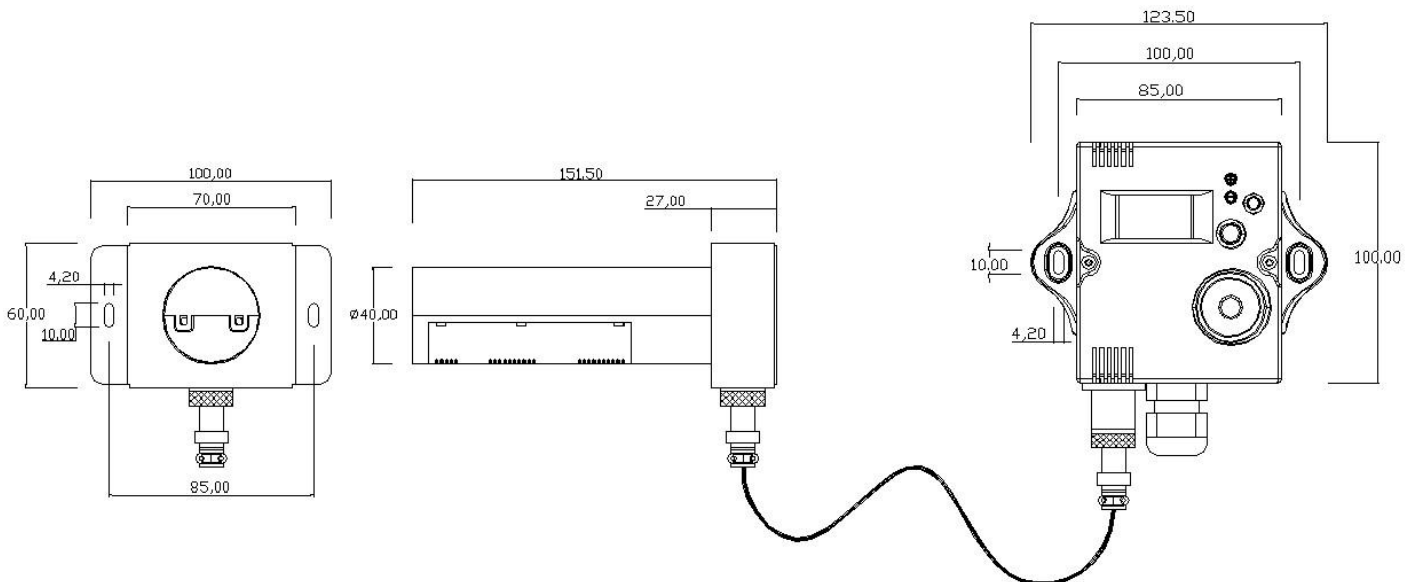
Z: O3 range

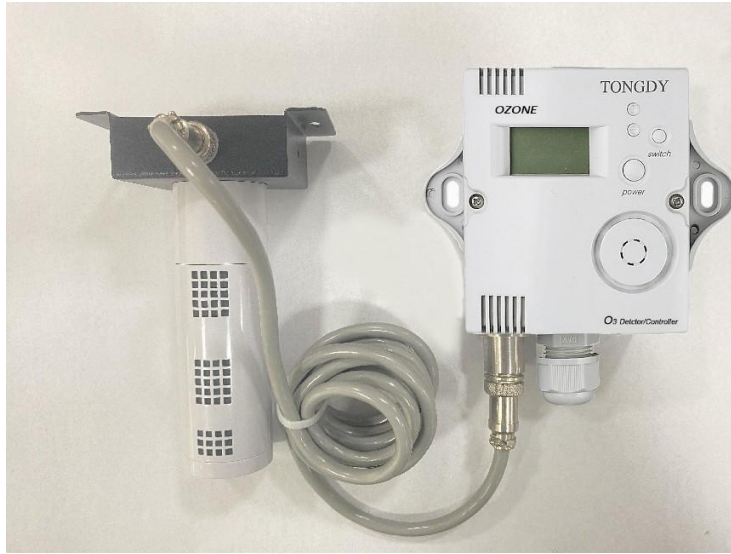
- 010: 0~1,000ppb (default)
- 050: 0~5,000ppb
- 100: 0~10,000ppb

Wiring Diagram



Mounting Diagram





[https://: www.iaqtongdy.com](https://www.iaqtongdy.com)

info@tongdy.com

Phone: +86 10 59738930 ext 8032

Add: Building 8, No.9 Dijin Rd, Haidian Dist. Beijing 100097, China