

Ozone Monitor and Controller



Product No: G09-O3

Ozone Monitor and Controller
1X analog and 1X dry contact outputs
RS485 interface with Modbus RTU



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- Real time detection and monitoring ambience ozone level
- Electrochemical ozone sensor inside
- 3-color backlight LCD indication and buzzer alarm optional
- Provide 1x relay dry contact outputs and 1x analog output
- Modbus RS485 communication Interface

Features

- Design for real time detecting and monitoring ambience ozone and temperature, optional humidity monitoring
- Electrochemical ozone sensor with high sensitivity and stability
- Particular LCD display with three color backlight (Green/Yellow/Red for three ozone
- Optional ozone measuring range: 20~1000ppb or 20~5000ppb.
- 1xOn/Off dry contact output to control an ozone generator or a fan
1X analog output (0~10VDC/4~20mA selectable)
- RS485 interface with Modbus RTU. 15 KV antistatic protection, individual IP address
- Temperature measurement and display
- Humidity measurement and display optional
- Multiple application, with wall mounting and desktop type



Specifications

Gas Sensing	Ozone electrochemical gas sensor
Sensor lifetime	>3 years
Temperature & RH Sensor	High-precision capacitive sensor
Power Supply	24VAC/VDC (power adaptor optional)
Power Consumption	2.8W /Ave.
Response Time	<60s @T90
Signal Update	1s
Warm up Time	<60 seconds
Ozone Measuring Range	20~1000ppb (40~1996.6 ug/m ³ @20°C) default 20~5000ppb (40~9.81 mg/m ³) optional in purchasing
Display Resolution	1ppb
Accuracy	±10ppb + 10% reading
Nonlinear	<1%FS
Repeatability	<0.5%

Alarm	Buzzer sounds and Red backlight display
Display	Green – <30% ozone range Orange – 30%~70% ozone range Red – >70% ozone range
Temperature/humidity Range	0°C~60°C (32°F~140°F) /0~80%RH
Analog Output	0~10VDC(default) or 4~20mA linear output selectable
Analog Output Resolution	16Bit
Relay dry contact output	Max switching current 3A (220VAC/30VDC), resistance Load
RS485 Communication Interface	Modbus RTU protocol with 19200bps(default) 15KV antistatic protection
Working Condition/Storage Conditions	5°C~60°C (41°F~140°F) / 0~ 80% RH
Net Weight	190g
Dimensions	130mm(H)×85mm(W)×36.5mm(D)
Installation Standard	65mm×65mm or 85mm×85mm or 2"×4" wire box
Interface Connection (Max)	9 terminals
Wiring Standard	Wire section area<1.5mm ²
Manufacturing Process	ISO 9001 Certified
Housing and IP class	PC/ABS fireproof plastic material, protection class: IP30
Compliance	EMC Directive 89/336/EEC

Models

G09–O3–X111–Y

1x 0~10VDC output
1x dry contact output
RS485 interface

G09–O3–X211–Y

1x 4~20mA output
1x dry contact output
RS485 interface

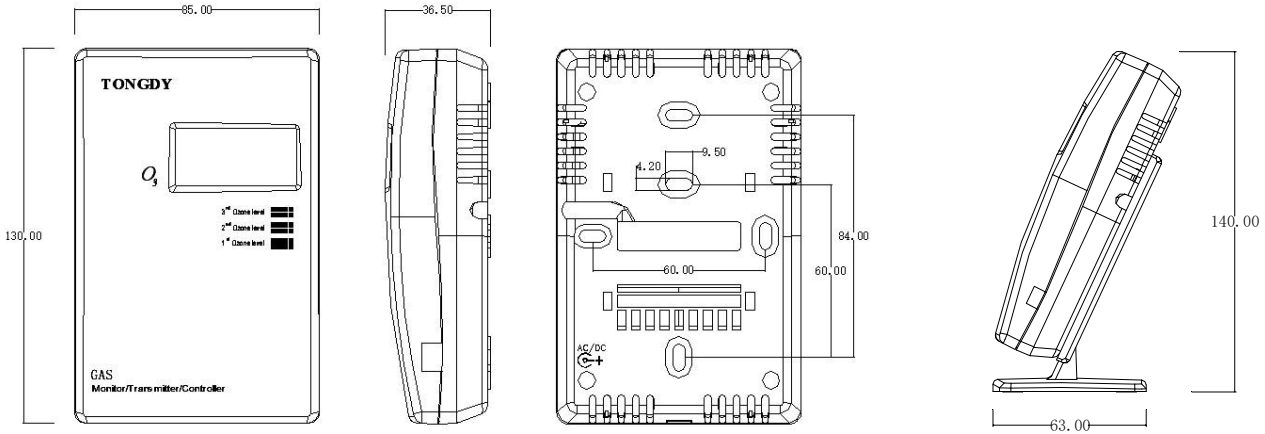
X: 2- Ozone and temperature detection
3-Ozone and Temp.&RH detection

Y—Ozone range

B10- 20~1000ppb (default)

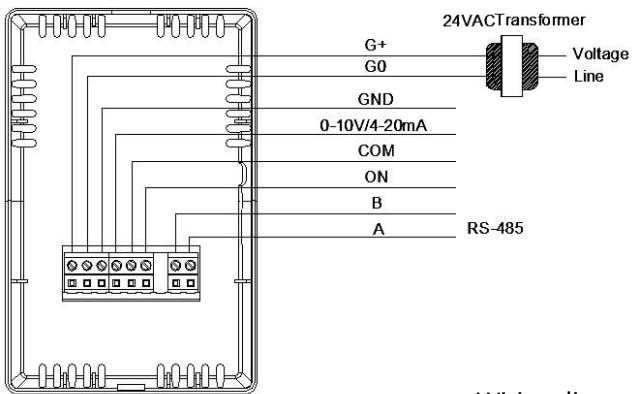
B50- 20~5000ppb

Mounting and Wiring Diagrams



Wall mounting

Desktop placement



Wiring diagram

