

G09-O3

Ozone Monitor and Controller

1X analog and 1X dry contact outputs

RS485 interface with Modbus RTU

- ◆ 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 ranges)
- ◆ 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
- ◆ Great performance with high quality and more than 10 years application experience

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℃) 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 and Yellow or Red backlight switch
Display	Green – <30% ozone range Orange – 30%~70% ozone range Red – >70% ozone range
Temperature/humidity Range	0℃~60℃ (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℃~60℃ (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

Modes Guide

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

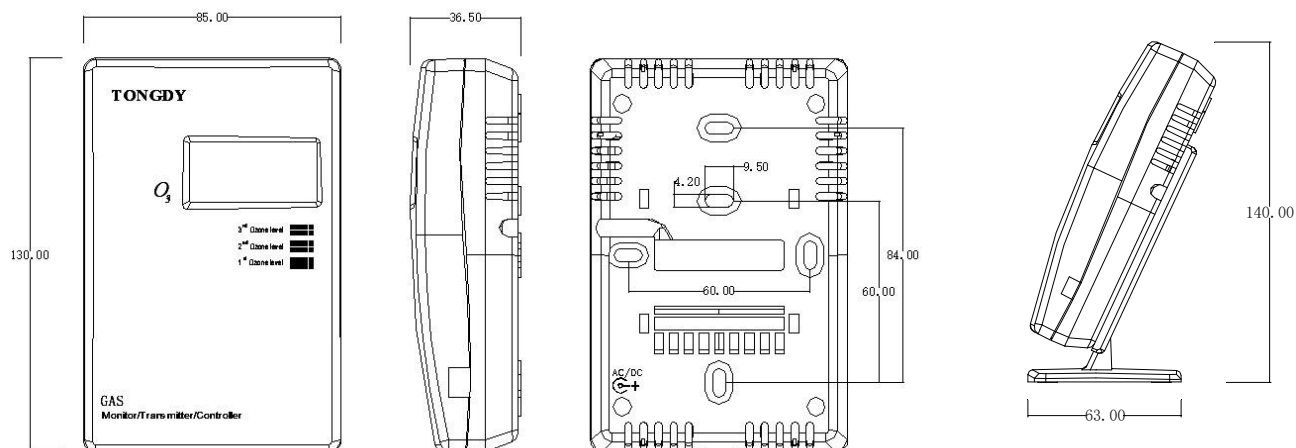
X: 2- Ozone and temperature detection
3-Ozone and Temp.&RH detection

Y—Ozone range

B10- 20~1000ppb (default)

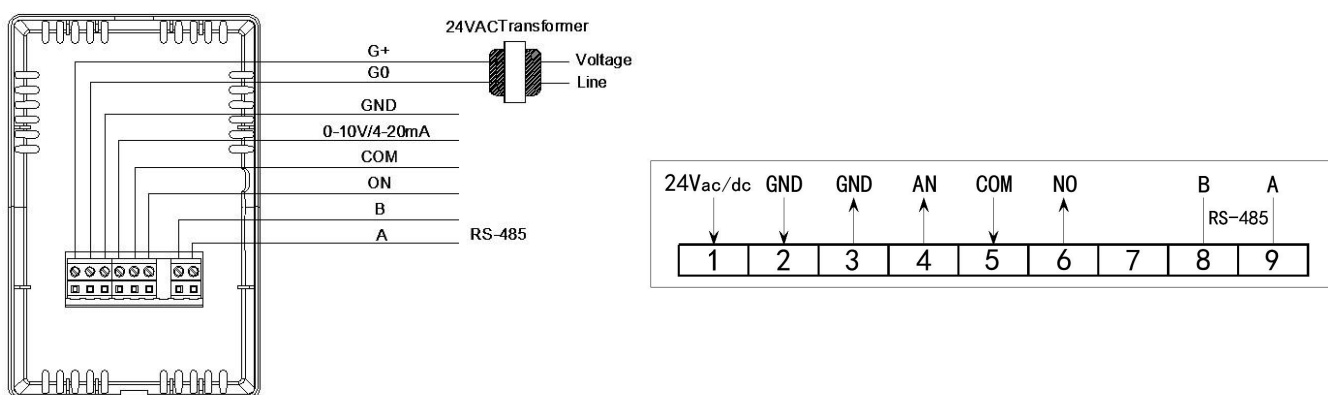
B50- 20~5000ppb

Mounting and Wiring Diagrams



Wall mounting

Desktop placement



Wiring diagram