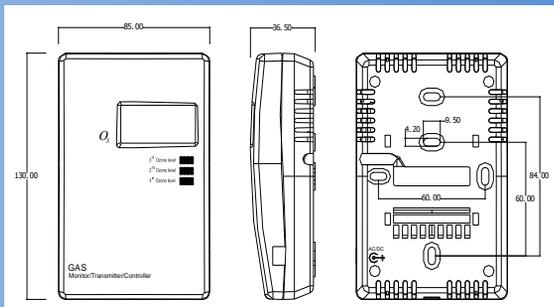


Features

- Design for real time detecting and monitoring ambience ozone level and temperature
- Electrochemical ozone sensor with high sensitivity
- Particular LCD display with three color backlights (Green/Yellow/Red)
- Maximum ozone measuring range: 0~5000ppb(0~9.81mg/m³) /0~1000ppb Also reset the measurement range by end user
- 2xOn/Off dry contact outputs for two stages alarm device, or control a ozone generator or a ventilator
- Buzzer alarm and 3-color backlight LCD indication



- Provide 1X analog output (0,2~10VDC/4~20mA) (can be used as transmitter).
- With RS485 communication interface, 15 KV antistatic protection, individual IP address.
- Provide two easy ways for calibration and setup alarm points via an infrared remote controller or via the RS485 interface.
- Temperature measurement and display.
- With humidity measurement and display.
- Multiple application, wall mount and desktop options.
- Accurate performance with high quality and affordable.

IAQ is a comprehensive index, which includes room temperature, humidity and ozone level. Monitoring ozone level is very important to guarantee healthy life and working environment. Air pollution caused by decoration, paints on new furniture or wall, smoke from cigarette, and cookers has become an invisible killer to humans, especially to infants, pregnant mothers and senior citizens. It can also cause nerve disorder or weak immunity, which is a potential danger to health.

What is Ozone?

Ozone is an irritating and corrosive gas that is usually colorless but becomes blue at high concentrations. It occurs naturally in the atmosphere because of thunderstorms. In the stratosphere (6 miles to 30 miles up in the air), ozone plays an important role in screening out harmful ultraviolet radiation from the sun that can result in health problems such as increased skin **cancers**. But down at earth level and indoors it is considered a pollutant due to emissions of **nitrogen oxides** and **volatile organic compounds** (VOCs).

It can also react with VOCs in the air to produce harmful byproducts such as **formaldehyde**. Often cities will issue air-pollution alerts when levels of ozone reach unhealthy levels. Studies have shown that people living in communities where there are high ozone levels have worse lung functions over five years than people living in communities with lower levels of ozone. These studies are consistent with animal studies, which also indicate that long-term exposure to ozone can impair lung function and cause structural changes to the lungs. Ozone is an indoor air pollutant because it is an irritant to the eyes, nose, throat and lungs.

Specifications

Gas	Detected Ozone
Sensing Element	Electrochemical gas sensor
Sensor lifetime	>2 years, removable
Temperature Sensor	NTC 5K
Humidity Sensor	HS series capacitive sensor
Power Supply	24VAC/VDC (power adaptor selectable)
Power Consumption	2.8W
Response Time	<50s @T90
Signal Update	1s
Warm up Time	<60 seconds
Ozone Measuring Range	0~5000ppb (0-5ppm)(0~9.81mg/m ₃)
Display Resolution	1ppb (0.001ppm) (0.01mg/ m ₃)
Accuracy	±0.01ppm + 10% reading
Nonlinear	<1%FS
Repeatability	<0.5%
Zero Drift <1%	<1%
Alarm	Buzzer and Yellow or Red backlight switch
Display	Green-normally, Orange – first stage alarm, Red- second stage alarm. Ozone alarm points can be preset.
Temperature/humidity Measuring Range	-20°C~60°C(-4°F~140°F)/0~99%RH
Analog Output	0~10VDC(default) or 4~20mA linear output selectable
Analog Output Resolution	16Bit
Relay dry contact Output	Two dry-contact outputs
Modbus Communication Interface	Max, switching current 3A (220VAC/30VDC), resistance Load Modbus RTU protocol with 19200bps(default) Other bps rate selectable in order
Working Condition	15KV antistatic protection
Storage Conditions	-20°C~60°C(-4°F~140°F)/0~99%RH
Net Weight	-40°C~70°C (-40°F~□ 158°F)/ 0~ 95% RH
Dimensions	190g
Installation Standard	130mm(H)×85mm(W)×36.5mm(D)
Interface Connection (Max)	65mm×65mm or 85mm×85mm or 2"×4" wire box
Wiring Standard Wire section area	9 terminals
Manufacturing Process	<1.5mm ²
Housing and IP class	ISO 9001 Certified
Compliance	PC/ABS fireproof plastic material, protection class: IP30 EMC Directive 89/336/EEC

Applications

- Hotels, exhibition halls, hospitals, shops, restaurants, airports, train stations, theaters and other public places.
- Houses, villas, offices, meeting rooms, classrooms, condominiums and other rooms.
- All ventilation systems to gauge optimum performance.
- AHU rooms.

Contact Details

Sales Inquiry