Ozone Monitor

OZONE MONITOR
A1320301-SP61 series

equipped with excellent sensitivity, selectivity, stability and long life OZONE SENSOR "SP-61"

For OZONE detection in air purifying, deodorizing, sterilization systems, photocopiers and for environmental monitoring systems

Features

- Suitable for environmental monitor by detecting 0 to 250ppb of ozone in atmosphere
- Inexpensive by using semiconductor type sensor
- Small wind velocity effect by integrating a fan and module into the case.
- Maintenance free
- Long life

Recently ozone has started to be used in commercial/domestic applications :e.g. in HVAC (Heating Ventilation and Air Conditioning) systems. FIS has developed a new semiconductor ozone sensor using an innovative ITO (Indium Tin Oxide) sensing material for ozone detection.

Configuration of the ozone sensor is shown in Figs. 1 and 2. The monitor sensitivity is in Fig. 3, and the response in Fig. 4. This monitor has two models. One is for the output of 0 to 1V. The other is for 0 to 5V.

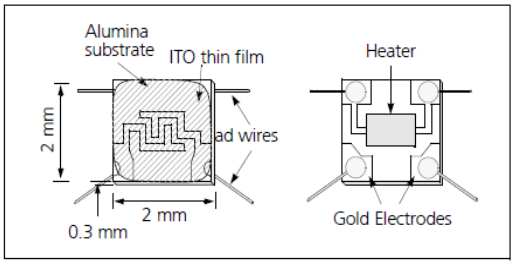

Fig. 1 Sensing Elements

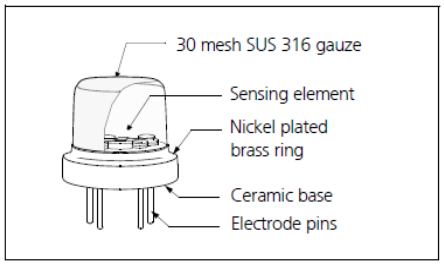

Fig. 2 Structure

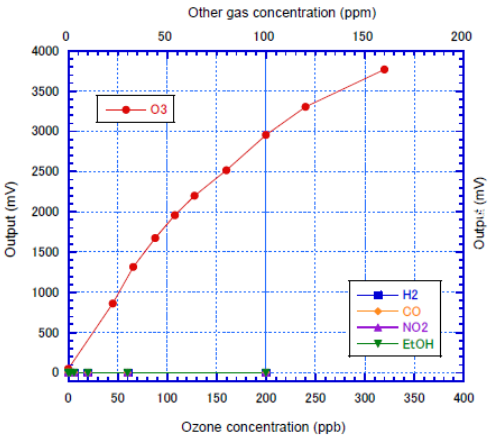

Fig. 3 Monitor sensitivity characteristics (Output range: 0 to 5V)

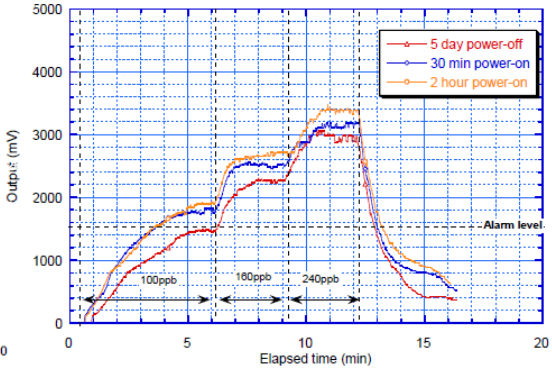

Fig. 4 Monitor Response (Output range: 0 to 5V)

SPECIFICATIONS

Specifications: Ozone Monitor

Basic specifications	
Power supply	5V DC ± 5%
Initial warm-up time:	About 3 minutes
Sensor	SP-61
Detection range	0 to 250ppb
Analogue output	0 to 1V or 0 to 5V (Cables: AWG24, Length: 50cm)
Alarm output	PNP transistor output, 5V DC output at ON, no delay alarm, auto-reset
Alarm concentration	80ppb of ozone
Power consumption	Lower than 700mW (400mW for sensor)
Operating temperature	0ºC to 40ºC
Storage temperature	-10ºC to 60ºC
Size	51(W) x 37(D) x 22(H) mm
Weight	15 g

Model	Features	Photo
A1320301-SP61-01F	• Sensor: SP-61 • Module: A1320301-SP61-01 • Analogue output: 0 to 1V	
A1320301-SP61-02F	• Sensor: SP-61 • Module: A1320301-SP61-02 • Analogue output: 0 to 5V	

I/O cables specifications

Color	Specifications
Black	GND for power supply
Red	+5V DC for power supply supply
White	Analogue output
Yellow	GND for analogue output
Green	Alarm output

Operation procedure

1. Connect cables (Black and Red) to 5V DC power supply.
2. Wait 3 minutes (warm-up).
3. Measure analogue output between cables (White and Yellow) to convert ozone concentration.
4. Disconnect power supply from the monitor when the measurement is finished.
   * When the concentration exceeds the alarm level, the alarm output turns ON. When the concentration decreases and becomes lower than the alarm level, the alarm output turns OFF.

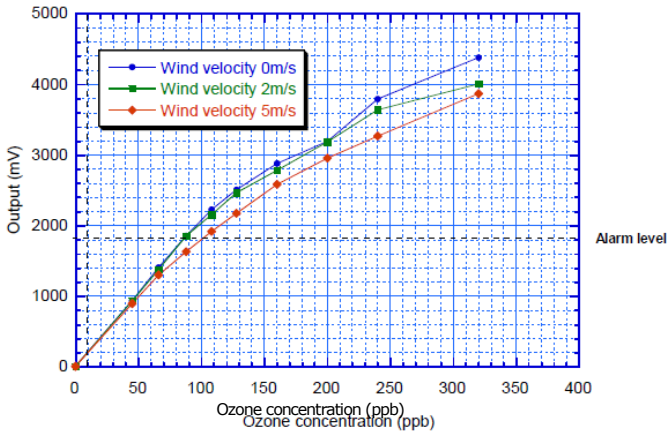

Fig. 5 Wind influence (Output range: 0 to 5V)

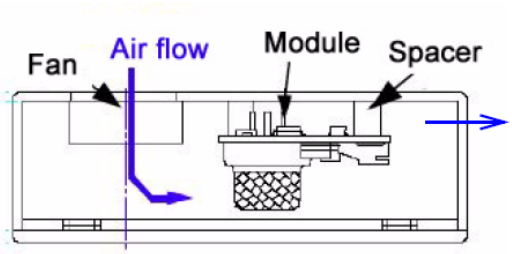

Fig. 6 Inside monitor

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Please contact

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