

Ozone Monitor

Series 100

Aeroqual's integrated ozone monitor, controller and switch is designed to be operated as part of an ozone generator control circuit or alarm system.

- **High accuracy**
- **Rapid T90 response**
- **Replaceable sensor head**
- **Wall or ceiling mounted**
- **External control signals**



Ozone Monitor

Series 100

Specifications

Aeroqual's Series 100 Ozone monitors are designed to measure and control ambient ozone concentrations in conjunction with ozone generators or other relay-activated circuits.

Monitor	
Sensor type	Gas Sensitive Semiconductor (GSS)
Measurement range	
Low concentration Ozone Head	0.000 to 0.500 ppm
High concentration Ozone Head	0.00 to 5.00 ppm
Accuracy	
Low concentration Ozone Head	+/- 0.010 ppm (0 to 0.100 ppm)
	+/- 10% (0.100 to 0.500 ppm)
High concentration Ozone Head	+/- 10% (0.20 to 5.00 ppm)
T90 response time	
Low concentration Ozone Head	100 seconds
High concentration Ozone Head	35 seconds
Operating temperature range	-5°C to 50°C
Relative humidity limit	5% and 95%
Removable/replaceable sensor heads	Yes

Controller/Switch

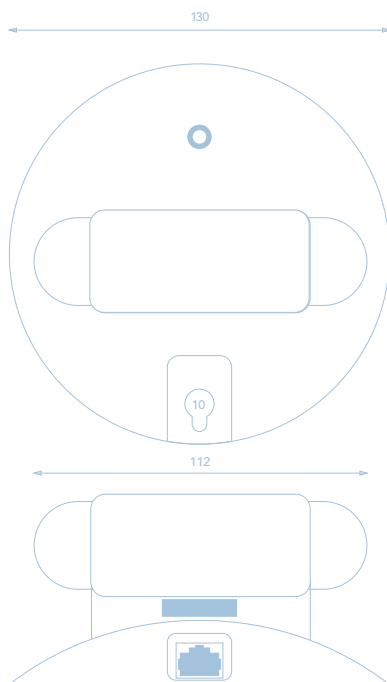
User adjustable high and low control and switching set points
 User adjustable control "dead band"
 External trigger signal for control and switching (user supply):
 12 volts, 150 mA
 LED status indicators: High/low/within control band, fault/failure
 Power Requirements (User supplied): 12 VDC, 400 mA
 Unit Interface (power in, control signal out): RJ45 connector.
 Height (with monitor): 64 mm; Diameter of base: 130 mm

Low concentration Ozone Sensor Head

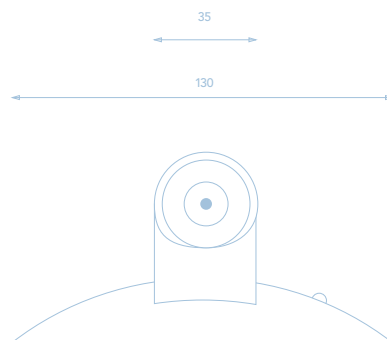
The low concentration ozone sensor head has been designed to not normally require recalibration for the life of the sensor head.

High concentration Ozone Sensor Head

The high concentration ozone sensor head is designed to provide a rapid T90 response. To maintain accuracy, an on-board reset routine can be implemented periodically (in the absence of ozone). This operation needs to be performed on a S300 or S500 monitor via the "Reset routine" menu option during routine maintenance cycles. The frequency of the maintenance cycle is dependant on the application conditions and level of accuracy required by the user.



Switch position	Low conc. head - low rotary	Low conc. head - high rotary	High conc. head - low rotary	High conc. head - high rotary
0	OFF	OFF	OFF	OFF
1	0.030	0.050	0.20	0.30
2	0.040	0.060	0.30	0.40
3	0.050	0.070	0.40	0.60
4	0.060	0.080	0.60	0.80
5	0.070	0.090	0.80	1.00
6	0.080	0.100	1.00	1.20
7	0.100	0.125	1.20	1.40
8	0.125	0.150	1.40	1.60
9	0.150	0.175	1.60	1.80
A	0.175	0.200	1.80	2.00
B	0.250	0.300	2.00	2.50
C	0.300	0.350	2.50	3.00
D	0.350	0.400	3.00	3.50
E	0.400	0.450	3.50	4.00
F	0.450	0.500	4.50	5.00



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