

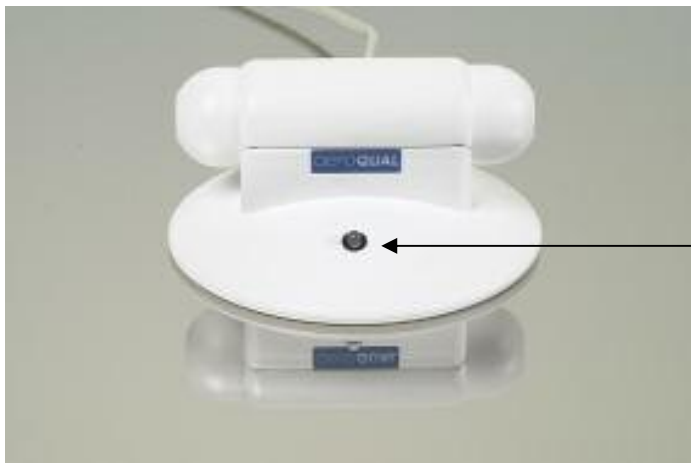
Series 100

Controller

Specification

Base Unit

Power (user supplied)	Regulated 12 VDC, 400 mA
Unit interface (power in, control signal out)	RJ45 connector
Setting control and alarms	dip switches
External signal for control & switching	Volt free (150 mA max, 24VDC max, resistive)
External signals	2
External signal functions	Alarm (Low Alarm & High Alarm) or Control
Removable / replaceable sensor head	Yes
LED status indicator	Low, high, within control band, diagnostics
Enclosure rating	IP20 & NEMA 1 equivalent
Enclosure size (with base unit)	64 H x 130 Ø (mm); 2½ H x 5⅛ Ø (in)
Weight	< 200 g; < 7 oz
Approvals	Part 15 of the FCC Rules EN 55022: 1998 EN 61000-6-1: 2001



3-Colour LED:-

- Below Low Limit
- Between Low and High Limits
- Above High Limit

Ozone Sensor Head Specifications

Sensor Heads	Low	High	Leak
Measurement range	0.000 - 0.500 ppm	0.50 - 20.00 ppm	0.00 - 50.00 ppm
Accuracy	< 0.008 ppm (0 - 0.100 ppm) ± 10% (0.100 – 0.500 ppm)	± 10% (0.20 - 2.00 ppm) ± 15% (2.00 - 20.00 ppm)	± 20%, 15 seconds after Reset
Resolution	0.001 ppm	0.01 ppm	0.01 ppm
Controlled Atmosphere Version	Available on Request	Available on Request	Available on Request
T90 Response	< 60 seconds (T90)	< 35 seconds (T90)	< 10 seconds
Sensor type	Gas-sensitive semiconductor		
Operating temperature range	-5°C to 50°C; 23°F to 122°F (sensor head and base unit)		
Relative humidity limit	95% maximum (sensor head and base unit)		

VOC Sensor Head Specification *

Measurement range	0 to 400 ppm toluene
Accuracy	< +/- 10 ppm (0 – 200 ppm) < +/- 10% (> 200 ppm)
T90 response	< 60 s
Sensor type	Gas-sensitive semiconductor
Operating temperature range	-20°C to 60°C
Operating relative humidity range	5 to 95% non-condensating

* Specific Calibrations to other VOC's available – contact Aeroqual Sales

Ammonia Sensor Head Specification

Measurement range	0 to 1000 ppm
Accuracy	< +/- 5 ppm (0 – 100 ppm) < +/- 10% (100 – 1000 ppm)
T90 response	< 60 s
Sensor type	Gas-sensitive semiconductor
Operating temperature range	-20°C to 60°C;
Operating relative humidity range	5 to 95% non-condensating

CO Sensor Head Specification

Measurement range	0 to 2000 ppm carbon monoxide
Accuracy	< +/- 10 ppm in the range 0 to 400 ppm
T90 response	< 150s
Sensor type	Gas-sensitive semiconductor
Operating temperature range	0°C to 70°C;
Operating relative humidity range	5 to 95% non-condensating
Approvals	UL 2034, BS 7860