

Series 500 Monitor

Features

- **State of the art technology**
- **Ergonomic design**
- **High accuracy & functionality**
- **Large easy to read display**
- **Onboard data logging**
- **Easy change sensor heads**



Specifications

Base unit

Measurement units	ppm or mg/m ³
Removable / replaceable sensor head	Yes
Onboard alarm	Yes (dual alarm)
Alarm status display	Yes
Alarm mute function	Yes
Low battery indication	Yes
Sensor condition status	Yes
Stand-by mode	Yes
External signal for alarms & control	Transistor output, 150 mA max
External signal functions	Low Alarm, High Alarm & Control
Analogue output	0 - 5 V
Power supply	12 VDC, 800 mA
Rechargeable battery pack	9.6V Ni-MH (7 hours operation)
Permanently fixable	Screw fix or Velcro
Remote sensor capability	Yes
Enclosure rating	IP20 & NEMA 1 equivalent
Size (with sensor head)	195 x 122 x 54 (mm); 7 ⁵ / ₈ x 4 ³ / ₄ x 2 ¹ / ₈ (in)
Weight (with sensor head & battery)	< 460 g; < 16 oz

Data logging

Data interface with PC	Serial RS232
Onboard data logging	8,000 data points
Data logging independent of PC	Yes
Data logging direct to PC	Yes
Onboard real-time clock	Yes
Data logging software supplied	Yes

Approvals

Part 15 of FCC Rules
 EN 50082-1: 1997
 EN 50081-1: 1992
 CE, C-tick and CSA (where applicable)

Available from:

RENZACCI UK PLC
 13-14 BOSTON PARADE T. 020 8579 2661
 BOSTON ROAD F. 020 8579 2663
 LONDON W7 2DG E. mail@renzacci.co.uk
 ENGLAND W. www.renzacci.co.uk



RENZACCI UK PLC

Ozone Sensor Head Specification

Sensor Heads	Ultra-Low	Low	High	Leak
Measurement range	0.000 - 0.150 ppm	0.000 - 0.500 ppm	0.50 - 20.00 ppm	0.00 - 50.00 ppm
Accuracy	± 0.005 ppm (0.01 - 0.10 ppm)	< 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	0.001 ppm	0.01 ppm	0.01 ppm
Controlled Atmosphere	Available on Request	Available on Request	Available on Request	Available on Request
T90 Response	< 70 seconds (T90)	< 60 seconds (T90)	< 35 seconds (T90)	< 10 seconds
Sensor type	Gas-sensitive semiconductor			
Operating temperature	-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)			

Volatile Organic Compound (VOC) Sensor Head Specification*

Measurement range	0 to 400 ppm toluene
Accuracy	< +/- 10 ppm (0 – 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 available e.g. Hydrocarbon HC12 – 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

Carbon Monoxide 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

Perchloroethylene Sensor Head Specification

Measurement range	0 to 200 ppm perchloroethylene
Accuracy	< +/- 5 ppm (0 to 50 ppm) ; +/- 10% (50 to 200 ppm)
Resolution	1 ppm
T50 response	< 30seconds
Reading Update	2 seconds
Sensor type	Gas-sensitive semiconductor
Operating temperature range	-20°C to 60°C
Operating relative humidity range	5 to 95% non-condensating

Isopropyl Alcohol (IPA) Sensor Head Specification

Measurement range	0 to 600 ppm
Accuracy	+/- 10 ppm 0-100 ppm
T90 response	<60 s
Reading update	2 s
Sensor type	Gas-sensitive semiconductor
Operating temperature range	-10°C to 60°C;
Operating relative humidity range	5 to 95% non-condensating

Ethyl Acetate (EtAc) Sensor Head Specification

Measurement range	0 to 600 ppm
Accuracy	+/- 10 ppm 0-100 ppm
T90 response	<60 s
Reading update	2 s
Sensor type	Gas-sensitive semiconductor
Operating temperature range	-10°C to 60°C;
Operating relative humidity range	5 to 95% non-condensating