

Series 320 & 520

Monitors

Specification

Series 320 and 520 Monitor Bases

Measurement units	ppm or mg/m ³
Removable / replaceable sensor head	Yes
On-board alarm	Yes
Alarm status displayed	Yes
Low battery indication	Yes
Alarm mute function	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 - UPS	9.6V Ni-MH (5 hours operation)
Permanently fixed	Screw fix
Operating Temperature	-35°C to 120°C
Enclosure rating	IP41 & NEMA 2 equivalent
Enclosure size	180W x 252H x 90D (mm); 7 ¹ / ₈ W x 9 ⁷ / ₈ H x 3 ¹ / ₂ D (in)
Enclosure casing	Fibre reinforced polycarbonate
Approvals	Part 15 of FCC Rules EN 50082-1: 1997 EN50081-1: 1992
*520 Series only:	
Data interface with PC	Serial RS232
On Board Data Logging	8,000 data points
Data logging independent of PC	Yes
Data logging direct to PC	Yes
On-board real-time clock	Yes
Data logging software supplied	Yes



Example: Series 520 Ozone Monitor
(Format differs dependent on gas)

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