

Aeroqual Sensor Head Specifications

Sensor	Calibrated Range	Maximum Exposure	LDL	Accuracy	Resolution	Response Time (T90)	Sampling Method 5	Operational Range	
								Temp.	RH 6
Ammonia 0 - 100 ppm	0 - 100	200	0.5 ppm	±5 ppm 0-100 ppm	0.1 ppm	<60 s	F	-20°C to 40°C	5 to 95%
Ammonia (leak) 0 - 1000 ppm	0 - 1000	2000	2 ppm	±15%	1 ppm	<60 s	F	-20°C to 40°C	5 to 95%
Carbon monoxide 0 - 100 ppm	0 - 100	200	0.5 ppm	±5 ppm	0.1 ppm	<150 s	F	0°C to 40°C	5 to 95%
Carbon monoxide 0 - 1000 ppm	0 - 1000	2000	1 ppm	±10%	1 ppm	<150 s	F	0°C to 40°C	5 to 95%
Carbon dioxide 0 - 2000 ppm	0 - 2000	NA	-	± (40 ppm + 3%)	10 ppm	<60 s	F	0 to 40°C	5 to 95%
Carbon dioxide 0 - 5000 ppm	0 - 5000	NA	-	± (150 ppm + 5%)	10 ppm	<60 s	F	0 to 40°C	5 to 95%
Carbon dioxide 0 - 5.00%	0 - 5.00%	NA	-	± 5%	0.01%	<60 s	F	0 to 40°C	5 to 95%
Hydrogen 0 - 5000 ppm 1	0 - 5000	20000	5 ppm	±10%	1 ppm	<90 s	F	-20°C to 40°C	5 to 95%
Hydrogen sulphide 0 - 10 ppm 1	0 - 10	25	10 ppb	±0.5 ppm	0.01 ppm	<60 s	D	-20°C to 40°C	5 to 95%
Hydrogen sulphide 0 - 50 ppm	0 - 50	100	0.05 ppm	±1 ppm 0-10 ppm ±2 ppm 10-50 ppm	0.1 ppm	<60 s	D	-20°C to 40°C	5 to 95%
Methane 0 - 10000 ppm	0 - 9999	10000	-	±15%	1 ppm	<60 s	F	0°C to 40°C	30 to 80%

Ozone 0 - 0.150 ppm	0 - 0.150	0.250	1 ppb	±0.005 ppm	0.001 ppm	<70 s	F	-5°C to 40°C	5 to 95%
Ozone 0 - 0.5 ppm	0 - 0.500	1	1 ppb	±0.008 ppm 0- 0.1 ppm ±10% 0.1- 0.5 ppm	0.001 ppm	<60 s	F	-5°C to 40°C	5 to 95%
Ozone 0.5 - 20 ppm 2	0.5 - 20	25	10 ppb	±10% 0.5- 2 ppm ±15% 2- 20 ppm	0.01 ppm	<35 s	F	-5°C to 40°C	5 to 95%
Ozone (leak)	For ozone leak detection at IDLH: 5ppm (IDLH = Immediate Danger to Life & Health)				0.01 ppm	<10 s	F	-5°C to 40°C	5 to 95%
Nitrogen dioxide 0 - 0.2 ppm	0 - 0.200	0.500	1 ppb	±0.01 ppm 0- 0.1 ppm ±10% 0.1- 0.2 ppm	0.001 ppm	<180 s	F	0°C to 40°C	30 to 70%
NMHC 3,4 0 - 25 ppm	0 - 25	50	0.1 ppm	±10% 0.1- 25 ppm	0.1 ppm	<60 s	F	-20°C to 40°C	5 to 95%
Perchloroethylene 0 - 200 ppm	0 - 200	250	1 ppm	±5 ppm 0- 50 ppm ±10% 50- 200 ppm	1 ppm	<5 s (T50)	F	0°C to 40°C	30 to 80%
Sulphur dioxide 0 - 10 ppm	0 - 10	20	0.2 ppm	±0.5 ppm	0.01 ppm	<60 s	F	-20°C to 40°C	5 to 95%
Sulphur dioxide 0 - 100 ppm	0 - 100	200	0.5 ppm	±10%	0.1 ppm	<60 s	D	-20°C to 40°C	5 to 95%
VOC 0 - 25ppm 3	0 - 25	50	0.1 ppm	±10% 0.1- 25 ppm	0.1 ppm	<60 s	F	-20°C to 40°C	5 to 95%
VOC 0 - 500 ppm 4	0 - 500	1000	1 ppm	±10%	1 ppm	<60 s	F	-20°C to 40°C	5 to 95%
Temperature	-20 to 100°C	-40 to 120°C	0.01° C	±0.3°C	0.01°C	<1 s	-	-40 to 120°C	0 to 100

									%
Humidity	0 to 100%	100%	1% RH	2% RH	1% RH	<1 s	-	-40 to 120°C	0 to 100 %

1. Other specific concentrations available on request
2. Accuracy < 0.5 ppm is unspecified (for applications that require accurate measurement < 0.5 ppm use low or ultra-low sensor heads)
3. Non Methane Hydrocarbon sensor (low sensitivity to alcohols & esters)
4. Calibrated against isobutylene. Other specific VOC calibrations are available on request
5. D= diffusion, F=fan
6. Relative Humidity non-condensing