

## Sensor Heads



Gas Sensor	Code	Sensor <sup>1</sup>	Range (ppm)	Minimum Detection Limit (ppm)	Accuracy of Calibration	Resolution (ppm)	Operational Range <sup>2</sup>	
							Temp.	RH
Ammonia (NH <sub>3</sub> )	ENG	GSE	0-100	0.2	<±10%	0.1	0 to 40°C	10 to 90%
Ammonia (NH <sub>3</sub> )	NH	GSS	0-1000	2	<±15%	1	0 to 40°C	10 to 90%
Carbon monoxide (CO)	ECM	GSE	0-25	0.02	<±0.5 ppm 0-5 ppm; <±10% 5-25ppm	0.01	0 to 40°C	10 to 90%
Carbon monoxide (CO)	ECN	GSE	0-100	0.1	<±1 ppm 0-10 ppm; <±10% 10-100ppm	0.1	0 to 40°C	10 to 90%
Carbon monoxide (CO)	CO	GSS	0-1000	1	<±10%	1	0 to 40°C	10 to 90%
Carbon dioxide (CO <sub>2</sub> )	CD	NDIR	0-2000	2	<± 5% of reading	1	0 to 40°C	10 to 90%
Carbon dioxide (CO <sub>2</sub> )	CE	NDIR	0-5000	5	<± 5% of reading	1	0 to 40°C	10 to 90%
Carbon dioxide (CO <sub>2</sub> )	CF	NDIR	0-5%	0.02%	<± 5% of reading	0.01%	0 to 40°C	10 to 90%
Chlorine (Cl <sub>2</sub> )	ECL	GSE	0-10	0.1	<±10%	0.01	0 to 40°C	10 to 90%
Formaldehyde (CH <sub>2</sub> O)	EF	GSE	0-10	0.01	<±0.05 ppm 0-0.5 ppm; <±10% 0.5-10ppm	0.01	0 to 40°C	10 to 90%
Hydrogen (H <sub>2</sub> )	HA	GSS	0-5000	5	<±10%	1	0 to 40°C	10 to 90%
Hydrogen sulfide (H <sub>2</sub> S)	EHS	GSE	0-10	0.01	<±0.05 ppm 0-0.5 ppm; <±10% 0.5-10ppm	0.01	0 to 40°C	10 to 90%
Hydrogen sulfide (H <sub>2</sub> S)	EHT	GSE	0-100	0.2	<±0.5 ppm 0-5 ppm; <±10% 5-100ppm	0.1	0 to 40°C	10 to 90%
Methane (CH <sub>4</sub> )	MT	GSS	0-10000	10	<±15%	1	0 to 40°C	10 to 90%
Nitrogen dioxide (NO <sub>2</sub> )	ENW	GSE	0-1	0.002	<±0.02 ppm 0-0.2 ppm <±10% 0.2-1 ppm	0.001	0 to 40°C	10 to 90%
NMHC	VN	GSS	0-25	0.1	<±10% 0.1-25 ppm	0.1	0 to 40°C	10 to 90%
Ozone (O <sub>3</sub> )	OZU	GSS	0-0.15	0.001	<±0.005 ppm	0.001	0 to 40°C	10 to 90%
Ozone (O <sub>3</sub> )	OZL	GSS	0-0.5	0.001	<±0.008 ppm 0-0.1 ppm; <±10% 0.1-0.5 ppm	0.001	0 to 40°C	10 to 90%
Ozone (O <sub>3</sub> ) (leak detector)	OZK	GSS	n/a	0.01	n/a	0.01	0 to 40°C	10 to 90%
Ozone (O <sub>3</sub> )	OZG	GSS	0-10	0.01	<±0.1 ppm 0-1 ppm; <±15% 1-10 ppm	0.01	0 to 40°C	10 to 90%
Ozone (O <sub>3</sub> ) CA (controlled atmosphere)	OZUCA	GSS	0-0.15	0.001	<±0.005 ppm	0.001	0 to 40°C	10 to 90%
Ozone (O <sub>3</sub> ) CA (controlled atmosphere)	OZLCA	GSS	0-0.5	0.001	<±0.008 ppm 0-0.1 ppm; <±10% 0.1-0.5 ppm	0.001	0 to 40°C	10 to 90%
Perchloroethylene (C <sub>2</sub> Cl <sub>4</sub> )	PE	GSS	0-200	1	<±5 ppm 0-50 ppm; <±10% 50-200 ppm	1	0 to 40°C	10 to 90%
Sulfur dioxide (SO <sub>2</sub> )	ESO	GSE	0-10	0.01	<±0.05 ppm 0-0.5 ppm; <±10% 0.5-10ppm	0.01	0 to 40°C	10 to 90%
Sulfur dioxide (SO <sub>2</sub> )	ESP	GSE	0-100	0.2	<±0.5 ppm 0-5 ppm; <±10% 5-100ppm	0.1	0 to 40°C	10 to 90%
VOC	PDL	PID	0-20	0.01	<±10%	0.01	0 to 40°C	10 to 90%
VOC	PDH	PID	0-1000	0.2	<±10%	0.1	0 to 40°C	10 to 90%
VOC	VM	GSS	0-25	0.1	<±10%	0.1	0 to 40°C	10 to 90%
VOC	VP	GSS	0-500	1	<±10%	1	0 to 40°C	10 to 90%
<b>Multisensor Heads</b>								
CO <sub>2</sub> , CO	MS1	NDIR	0-2000	2	<± (40 ppm + 3%) <±10% 1-100ppm	1	0 to 40°C	10 to 90%
		GSE	0-100	0.1		0.1		
CO <sub>2</sub> , CO, PID	MS2	NDIR	0-2000	2	<± (40 ppm + 3%) <±10% 1-100ppm	1	0 to 40°C	10 to 90%
		GSE	0-100	0.1		0.1		
		PID	0-25	0.01		0.01		



## AQM60 Modules

Gas Sensor	Code	Sensor <sup>1</sup>	Range (ppm)	Minimum Detection Limit (ppm)	Accuracy of Calibration	Resolution (ppm)	Ambient Operating Range <sup>2</sup>	
							Temp.	RH
Ammonia (NH <sub>3</sub> )	ENF	GSE	0-25	0.05	<0.2 ppm	0.1	-20 to 55°C	5 to 95%
Carbon monoxide (CO)	ECM	GSE	0-25	0.02	<±0.1 ppm 0-1 ppm; <±10% above 1	0.01	-20 to 55°C	5 to 95%
Carbon dioxide (CO <sub>2</sub> )	CD	NDIR	0-2000	1	<± 5% of reading	1	-20 to 55°C	5 to 95%
Hydrogen sulfide (H <sub>2</sub> S)	EHS	GSE	0-10	0.01	<±0.05 ppm 0-0.5 ppm; <±10% 0.5-10ppm	0.01	-20 to 55°C	5 to 95%
Ozone (O <sub>3</sub> )	UZ	GSS	0-0.15	0.001	<±0.005 ppm	0.001	-20 to 55°C	5 to 95%
Ozone (O <sub>3</sub> )	LZ	GSS	0-0.5	0.001	<±0.008 ppm 0-0.1 ppm; <±10% 0.1-0.5 ppm	0.001	-20 to 55°C	5 to 95%
Nitrogen dioxide (NO <sub>2</sub> )	NW	GSS	0-0.2	0.001	<±0.01 ppm 0-0.1 ppm; <±10% 0.1-0.2 ppm	0.001	-20 to 55°C	5 to 95%
NOx	NX	GSS	0-1	0.001	<±0.01 ppm 0-0.1 ppm; <±10% 0.1-1 ppm	0.001	-20 to 55°C	5 to 95%
NMHC	VN	GSS	0-25	0.1	<±10%	0.1	-20 to 55°C	5 to 95%
Sulfur dioxide (SO <sub>2</sub> )	ESO	GSE	0-10	0.01	<±0.05 ppm 0-0.5 ppm; <±10% 0.5-10ppm	0.01	-20 to 55°C	5 to 95%
VOC	PDL	PID	0-20	0.01	<±10%	0.01	-20 to 55°C	5 to 95%
VOC	VM	GSS	0-25	0.1	<±10%	0.1	-20 to 55°C	5 to 95%

## SM50 Modules\*



Gas Sensor	Code	Sensor	Range (ppm)	Minimum Detection Limit (ppm)	Accuracy of Calibration	Resolution (ppm)	Operational Range	
							Temp.	RH
Ammonia (NH <sub>3</sub> )	NH	GSS	0-1000	2	<±15%	1	0 to 40°C	10 to 90%
Carbon monoxide (CO)	CO	GSS	0-1000	1	<±10%	1	0 to 40°C	10 to 90%
Methane (CH <sub>4</sub> )	MT	GSS	0-10000	10	<±15%	1	0 to 40°C	10 to 90%
NMHC	VN	GSS	0-500	0.1	<+/-10%	0.1	0 to 40°C	10 to 90%
Ozone (O <sub>3</sub> )	OZU	GSS	0-0.15	0.001	<±0.005 ppm	0.001	0 to 40°C	10 to 90%
Ozone (O <sub>3</sub> )	OZL	GSS	0-0.5	0.001	<±0.008 ppm 0-0.1 ppm; <±10% 0.1-0.5 ppm	0.001	0 to 40°C	10 to 90%
Ozone (O <sub>3</sub> )	OZG	GSS	0-10	0.01	<±0.1 ppm 0-1 ppm; <±15% 1-10 ppm	0.01	0 to 40°C	10 to 90%
Perchloroethylene (C <sub>2</sub> Cl <sub>4</sub> )	PE	GSS	0-200	1	<±5 ppm 0-50 ppm; <±10% 50-200 ppm	1	0 to 40°C	10 to 90%
VOC	VM	GSS	0-25	0.1	<±10%	0.1	0 to 40°C	10 to 90%
VOC	VP	GSS	0-500	1	<±10%	1	0 to 40°C	10 to 90%

\* Minimum order quantities apply for SM50 modules. Please contact Aeroqual for pricing.



## IQM60

Gas Sensor	Code	Sensor <sup>1</sup>	Range (ppm)	Minimum Detection Limit (ppm)	Accuracy of Calibration	Resolution (ppm)	Ambient Operating Range <sup>2</sup>	
							Temp.	RH
Ammonia (NH <sub>3</sub> )	ENG	GSE	0-100	0.2	<±10%	0.1	0 to 40°C	10 to 90%
Carbon monoxide (CO)	EC	GSE	0-100	0.1	<±1 ppm 0-10 ppm; <±10% 10-100ppm	0.1	0 to 40°C	10 to 90%
Carbon dioxide (CO <sub>2</sub> )	CD	NDIR	0-2000	1	<± 5% of reading	1	0 to 40°C	10 to 90%
Formaldehyde (CH <sub>2</sub> O)	EF	GSE	0-10	0.01	<±0.05 ppm 0-0.5 ppm; <±10% 0.5-10ppm	0.01	0 to 40°C	10 to 90%
Hydrogen sulfide (H <sub>2</sub> S)	EHS	GSE	0-10	0.01	<±0.05 ppm 0-0.5 ppm; <±10% 0.5-10ppm	0.01	0 to 40°C	10 to 90%
Methane (CH <sub>4</sub> )	MT	GSS	0-10000	10	<±15%	1	0 to 40°C	10 to 90%
Nitrogen dioxide (NO <sub>2</sub> )	ENW	GSE	0-1	0.002	<±0.02 ppm 0-0.2 ppm <±10% 0.2-1 ppm	0.001	0 to 40°C	10 to 90%
NMHC	VN	GSS	0-25	0.1	<±10% 0.1-25 ppm	0.1	0 to 40°C	10 to 90%
Ozone (O <sub>3</sub> )	UZ	GSS	0-0.15	0.001	<±0.005 ppm	0.001	0 to 40°C	10 to 90%
Ozone (O <sub>3</sub> )	LZ	GSS	0-0.5	0.001	<±0.008 ppm 0-0.1 ppm; <±10% 0.1-0.5 ppm	0.001	0 to 40°C	10 to 90%
Sulfur dioxide (SO <sub>2</sub> )	ESO	GSE	0-10	0.01	<±0.05 ppm 0-0.5 ppm; <±10% 0.5-10ppm	0.01	0 to 40°C	10 to 90%
VOC	PDL	PID	0-20	0.01	<±10%	0.01	0 to 40°C	10 to 90%
VOC	VM	GSS	0-25	0.1	<±10%	0.1	0 to 40°C	10 to 90%

## Ozone UV Photometers



Gas Sensor	Code	Sensor	Range (ppm)	Minimum Detection Limit (ppm)	Accuracy of Calibration	Resolution (ppm)	Operational Range	
							Temp.	RH
Ozone (O <sub>3</sub> )	UV1	Photometer	0-200	0.01	<±0.01 ppm 0-0.2 ppm; <±5% >0.2 ppm	0.01	-5 to 40°C	0 to 95%
Ozone (O <sub>3</sub> )	UVH	Photometer	0-200	0.01	<±0.01 ppm 0-0.2 ppm; <±5% >0.2 ppm	0.01	-5 to 40°C	0 to 95%
Ozone (O <sub>3</sub> )	S960	Photometer	0-200	0.01	<±0.01 ppm 0-0.2 ppm; <±5% >0.2 ppm	0.01	-5 to 40°C	0 to 95%

### Notes

1. Sensor Technologies: Gas Sensitive Semiconductor (GSS), Gas Sensitive Electrochemical (GSE), Non-dispersive Infra-red (NDIR), Photo Ionization Detector (PID). Specifications may change. Please contact Aeroqual for latest specifications.

2. Sensors may exhibit temperature and humidity interferences which will affect accuracy. Always calibrate under conditions that match operating conditions. Sensors may still operate outside the stated operating conditions but with reduced performance. Enclosure design may extend operating range. Contact Aeroqual for further information.

3. Other sensors are available upon request.