

TABLE 1. SENSOR SPECIFICATIONS

SELECTABLE GASES	OZONE (O ₃)
Cartridge Part Number	MIDAS S2-E-O3X 2-year extended warranty
Sensor Technology	Electrochemical sensor
Measuring Range	O ₃ 0 ppm to 0.4 ppm
Default Alarm 1	O ₃ 0.05 ppm
Default Alarm 2	O ₃ 0.1 ppm
LDL, LAL	O ₃ 0.036 ppm
Resolution	O ₃ 0.002 ppm
Accuracy	± 5 % of measured value
Response Time t62.5	Typical 22 seconds
Sensor Cartridge Life Expectancy (Expiration Period)	24 months under typical application conditions Extendable for 1 year through calibration after 24 months
Operating Temperature Effect of Temperature Sensitivity	0°C to 40°C (32°F to 104°F) ± 15 % of measured value at 20°C
Operating Humidity	15 % to 90 % non-condensing
Operating Pressure	90 kPa to 110 kPa
Calibration Gas	O ₃ 0.2 ppm
Warm Up Time	< 10 minutes
Storage Temperature	5°C to 25°C (41°F to 77°F)

The sensor data listed is based on the test data with O₃ gas under normal lab test conditions (20°C to 25°C, 0 % to 60 %RH, normal atmosphere pressure); observed performance may vary based on the actual monitoring system and the sampling conditions employed.

TABLE 2. GAS MEASUREMENT

GAS MEASURED	CHEMICAL FORMULA	CONCENTRATION APPLIED (PPM)	READING (PPM O ₃)
Ammonia	NH ₃	100	0 (Negative drift)
Chlorine	Cl ₂	1	0.4 (Over range)
Chlorine Dioxide	ClO ₂	1	0.4 (Over range)
Chlorine Trifluoride	ClF ₃	1	0.4 (Over range)
Fluorine	F ₂	0.1	0.1
Hydrazine	N ₂ H ₄	3	0.4 (Over range)
Hydrogen Sulfide	H ₂ S	20	0.4 (Over range)
Nitric Oxide	NO	50	0.07
Nitrogen Dioxide	NO ₂	10	0.4 (Over range)
Sulfur Dioxide	SO ₂	20	0.4 (Over range)
Hydrogen Chloride	HCl	4	0.4 (Over range)
Hydrogen	H ₂	500	0 (Negative drift)
Hydrogen Flouride	HF	6	0.4 (Over range)
Hydrogen Cyanide	HCN	10	0.114
Arsine	AsH ₃	0.2	0
Carbon Dioxide	CO ₂	5000	0
Carbon Monoxide	CO	100	0
Silane	SiH ₄	10	0
Phosphine	PH ₃	0.6	0
Ethylene Oxide	C ₂ H ₄ O	20	0

CROSS SENSITIVITIES

Each Midas S2 sensor is potentially cross sensitive to other gases and this may cause a gas reading when exposed to other gases than those originally designated. The table below presents typical readings that will be observed when a new sensor cartridge is exposed to the cross sensitive gas (or a mixture of gases containing the cross sensitive species).

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