MIDAS S2
OXYGEN (O_2)

Sensor Cartridge Specifications

Selectable gases	Oxygen (O_2)
Cartridge Part Number	MIDAS S2-L-O2S 3-year extended warranty
Sensor Technology	Electrochemical sensor
Measuring Range	O_2 0 – 25%vol
Default Alarm 1	O_2 23.5%vol
Default Alarm 2	O_2 19.5%vol
LDL	O_2 0.2%vol of 20.9 %vol
Adjustable alarm range	0 %vol ~ 20.7%vol, 21.1%vol ~ 25%vol
Unconfigurable alarm range	20.8 %vol ~ 21%vol
Resolution	O_2 0.1%vol
Accuracy	≤ ± 0.2%vol
Response Time t62.5	Typical 2 seconds
Sensor Cartridge Life Expectancy (Expiration Period)	36 months under typical application conditions Extendable for 1 year through calibration after 36 months
Operating Temperature	0°C to +40°C (32°F to 104°F)
Effect of Temperature Sensitivity	≤ ± 0.3%vol of measured value at 20°C
Operating Humidity	15 to 90% non-condensing
Operating Pressure	80 – 120kPa
Calibration Gas	O_2 20.9%vol
Warm Up Time	< 30 minutes
Storage Temperature	+5°C to +25°C (+41°F to +77°F)

The sensor data listed is based on the test data with O_2 gas under normal Lab test conditions (20-25 C, 0 - 60%RH, normal atmosphere pressure); observed performance may vary based on the actual monitoring system and the sampling conditions employed.

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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).

Gas Measured	Chemical Formula	Concentration Applied(ppm)	Reading (%vol O_2)
Carbon Dioxide	CO_2	300	20.9
Hydrogen	H_2	100%vol	0 (Negative Drift)
Methane	CH_4	100%vol	0
Nitrogen	NO_2	25	20.9

Interference differs from cartridge to cartridge and over cell life. It is not recommended to calibrate with cross sensitivity factors. The target gas should be used for calibration.

For more information
automation.honeywell.com

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