

MIDAS S2 CARBON MONOXIDE (CO)

Sensor Cartridge Specifications

Selectable gases	Carbon Monoxide (CO)
Cartridge Part Number	MIDAS S2-L-COX
Sensor Technology	Electrochemical sensor
Measuring Range	CO 0 – 100ppm
Default Alarm 1	CO 12.5ppm
Default Alarm 2	CO 25ppm
LDL, LAL	CO 9ppm
Resolution	CO 0.5ppm
Accuracy	≤ ± 5% of measured value
Response Time $t_{62.5}$	Typical 2 seconds
Sensor Cartridge Life Expectancy (Expiration Period)	36 months under typical application conditions Extendable for 2 years through calibration after 36 months
Operating Temperature	0°C to +40°C (32°F to 104°F)
Effect of Temperature Sensitivity	≤ ± 10% of measured value at 20°C
Operating Humidity	15 to 90% non-condensing
Operating Pressure	60 – 120kPa
Calibration Gas	CO 50ppm
Warm Up Time	< 20 minutes
Storage Temperature	+5°C to +25°C (+41°F to +77°F)

The sensor data listed is based on the test data with CO 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 (ppm CO)
Carbon Dioxide	CO ₂	5%vol	0
Hydrogen	H ₂	100	37
Hydrogen Sulfide	H ₂ S	10	0
Methane	CH ₄	5%vol	0
Nitrogen Dioxide	NO ₂	10	0
Nitric Oxide	NO	50	0
Sulfur Dioxide	SO ₂	20	0
Ammonia	NH ₃	50	0
Isobutylene	Iso-C ₄ H ₈	100	0
Chlorine	Cl ₂	10	0
Hydrogen Cyanide	HCN	15	0

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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