

Midas[®] SENSOR CARTRIDGE SPECIFICATIONS

Tetra-Ethyl-Ortho-Silicate (TEOS) MIDAS-S-TEO, MIDAS-E-TEO



Gas Measured	Tetra-Ethyl-Ortho-Silicate (TEOS)
Cartridge Part Number	MIDAS-S-TEO 1 year standard warranty MIDAS-E-TEO 2 year extended warranty
Sensor Technology	3 electrode electrochemical cell
Measuring Range (ppm)	TEOS 0 – 40ppm
Minimum Alarm 1 Set Point	5.00ppm
Repeatability	< ± 2% of measured value
Linearity	< ± 10% of measured value
Response Time _{t62.5}	< 25 seconds
Sensor Cartridge Life Expectancy	≥ 24 months under typical application conditions
Operating Temperature	0°C to +40°C (32°F to 104°F)
Effect of Temperature Zero	< ± 0.06ppm / °C (0°C to 20°C) < ± 0.15ppm / °C (20°C to 40°C)
Sensitivity	< ± 1.8% of measured value / °C
Operating Humidity (continuous)	15 – 90% rH
Effect of Humidity	
Zero	No effect
Sensitivity	< ± 1% of measured value / % rH
Operating Pressure	90 – 110kPa
Effect of Position	No effect in typical application
Long Term Drift	
Zero	< ± 2ppm / year
Sensitivity	< ± 5% of measured value / year
Calibration Gas	Ethylene Oxide (ETO)
Challenge Gas (Bump Test)	Ethylene Oxide (ETO)
Warm Up Time	< 10 minutes
Storage Temperature	+5°C to +25°C (+41°F to +77°F)

The sensor data listed is based on ideal test environment; observed performance may vary based on the actual monitoring system and the sampling conditions employed

Cross Sensitivities

Each Midas[®] 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 / Vapor	Chemical Formula	Concentration Applied (ppm)	Reading (ppm TEOS)
Carbon Monoxide	CO	10	4
Ethanol	C ₂ H ₅ OH	10	7.3
Ethylene Oxide	C ₂ H ₄ O	10	9.1
Iso Propanol	C ₃ H ₇ OH	10	3.3
Methyl Ethyl Ketone	C ₄ H ₈ O	10	1
Toluene	C ₇ H ₈	10	2

Find out more

www.honeywellanalytics.com

Toll-free: 800.538.0363

Please Note:

While every effort has been made to ensure accuracy in this publication, no responsibility can be accepted for errors or omissions. Data may change, as well as legislation, and you are strongly advised to obtain copies of the most recently issued regulations, standards, and guidelines. This publication is not intended to form the basis of a contract.