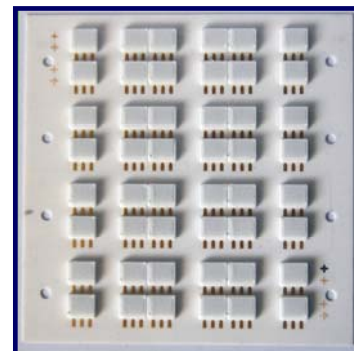


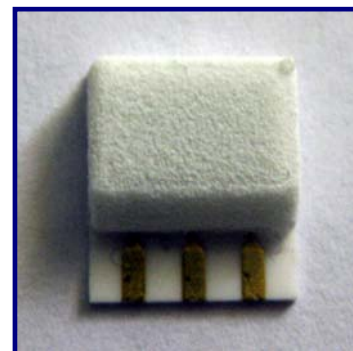
SEC Gas Sensor

CARBON MONOXIDE 1000 SECS Technical Specification

Sensor Type	CO 1000 SECS
Detectable Gases	Carbon Monoxide
PN wafer à 48 sensors	01-01-40-01
PN single sensor	01-02-40-01
Measuring Principle	Amperometric 3-electrode sensor
Contact	3 gold pads * non solderable

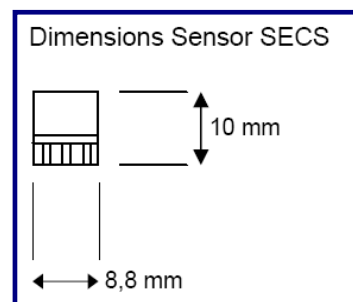


Standard Range	0 – 1000 ppm
Lower Detectable Limit (LDL)	2 ppm
Maximum Range	2000 ppm
MAK/TLV	30 ppm
Long Term Sensitivity Drift	< 1 % / month
Linearity at standard range	linear
Repeatability	> 98 % of signal
Zero current at normal conditions	+/- 100 nA
Sensitivity	30 ... 50 nA/ppm
Response time at target level	
T50	< 10 s
T90	< 30 s
Sensor warm up time typically	60 s
Operating conditions	- 20°C ... +50°C 10 ... 95 % r. h.
Expected life time	5 years



CARBON MONOXIDE 1000 SECS Dimensional Drawing

Sensor dimensions 10 mm x 8,8 mm x 3 mm

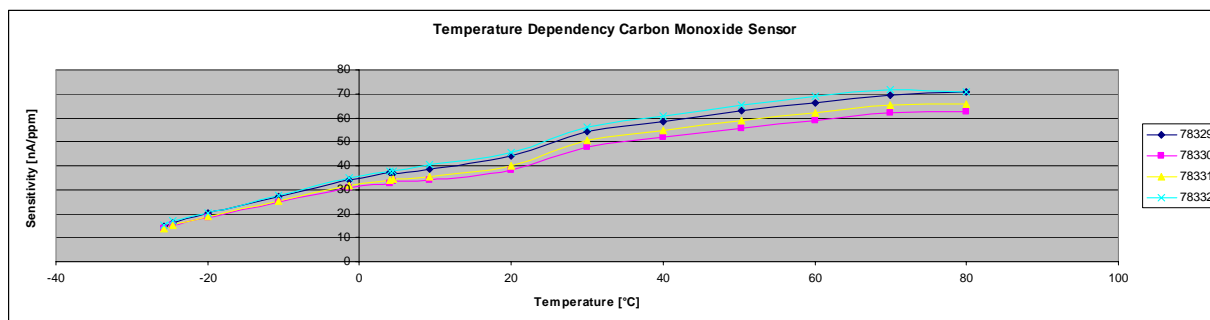


* Soldering to the pads will damage the sensor

SEC Gas Sensor

CARBON MONOXIDE 1000 SECS

Temperature Dependence



CARBON MONOXIDE 1000 SECS

Cross Sensitivity

Gas	Formula	Test Gas Concentration	Reading in ppm
Ammonia	NH ₃	25 ppm	0
Carbon Dioxide	CO ₂	5000 ppm	0
Chlorine	Cl ₂	1.0 ppm	0
Hydrocarbons unsaturated	-	1 %	0.0
Hydrogen	H ₂	100 ppm	30
Hydrogen Sulphide	H ₂ S	10 ppm	30
Isopropanol	C ₃ H ₇ OH	1000 ppm	0
Nitric Oxide	NO	20 ppm	0
Nitrogen Dioxide	NO ₂	10 ppm	0
Ozone	O ₃	0.5 ppm	0
Sulphur Dioxide	SO ₂	20 ppm	0

Note:

Test conditions at 20°C/ 1013 hPa, Flow Rate > 500 qcm/min
 Cross sensitivity gases are not target gases. Relation can change with aging.

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