

Mini Carbon Monoxide Sensor 0-500 ppm

Performance Characteristics

Part Number	CLE-0052-S00
Nominal Range	0 to 500 ppm
Maximum Overload	2000 ppm
Sensitivity	$0.050 \pm 0.015 \mu\text{A/ppm}$
Baseline (20 °C)	$< \pm 0.2 \mu\text{A}$
Baseline Drift (-20 to 40 °C)	0 to 3 ppm equivalent
Resolution	1 ppm
Response Time (T ₉₀)	$\leq 30 \text{ s}$
Linearity	Linear
Long Term Output Drift	$< 2\% \text{ signal/month}$

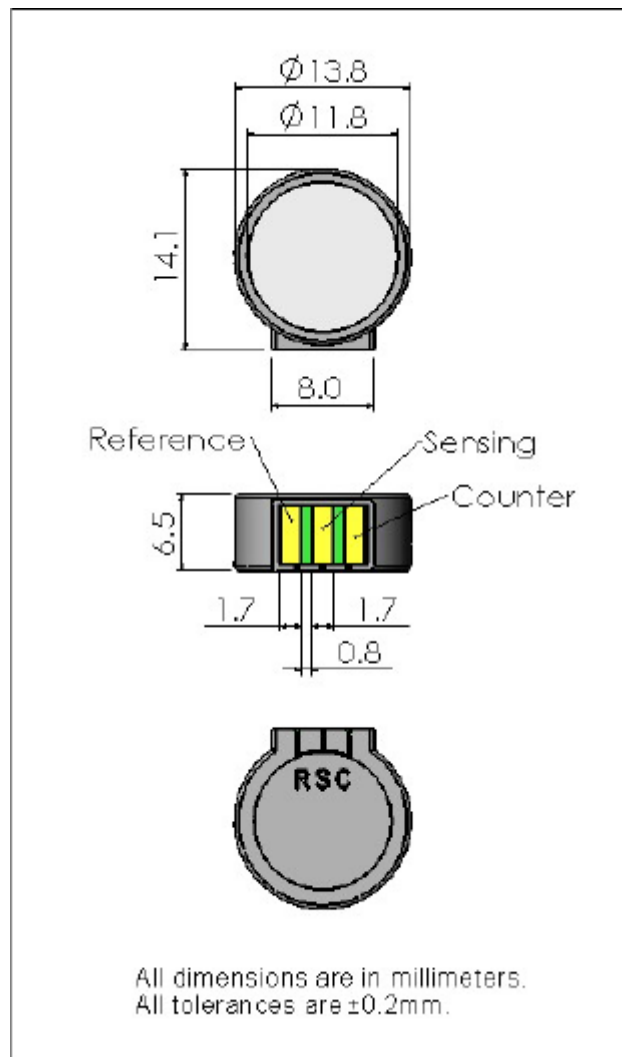
Operation Conditions

Temperature Range	-40 °C to 55 °C
Operating Humidity	15 to 90%RH non-condensing
Pressure Range	90 to 110 kPa
Bias Potential	0 mV
Storage Life	6 months in sealed container
Storage Temperature	0 °C to 20 °C
Expected Operating Life	2 years in air
Warranty	12 months from date of despatch

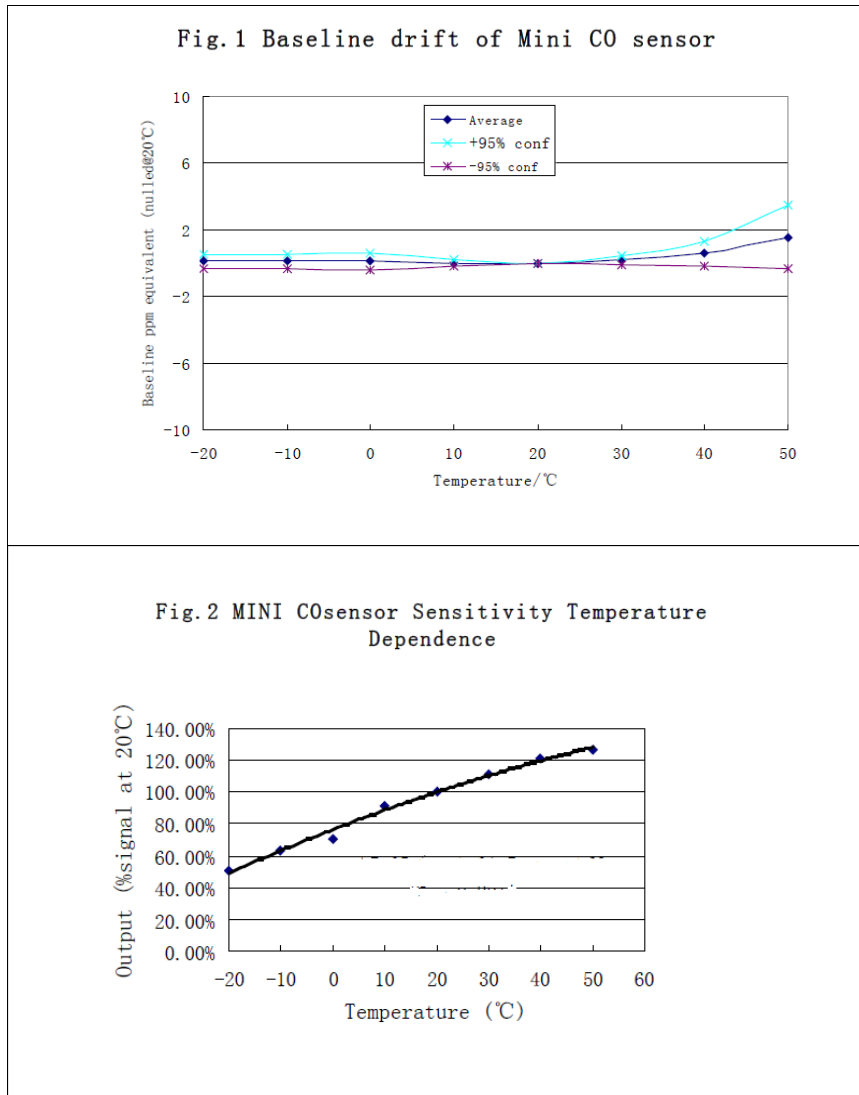
Physical Characteristics

Weight	1 g (approx)
Orientation Sensitivity	None

Outline Dimension



Temperature Dependence



Cross-sensitivity Data

Gas	Concentration (ppm)	Output Signal (ppm CO equivalent)
Hydrogen Sulfide	15	0.5
Sulfur Dioxide	20	0.1
Nitric Oxide	35	6
Nitrogen Dioxide	10	0.1
Hydrogen	400	70

Notes:

1. All performance specifications are based upon the following environment conditions: 20 °C, 50% relative humidity and 1 atmospheric pressure (100 kPa or ambient pressure).
2. Recommend calibration with target gas. If calibration with a cross sensitivity gas, we cannot ensure the accuracy of calibration and measurement.
3. The cross sensitivity may fluctuate between +/- 30% and may differ from batch to batch or from sensor's life time.
4. The cross sensitivities are including but not limited to the above gases. It may also respond to other gases.