

Hydrogen Sulfide Sensor 0-200 ppm

Performance Characteristics

Part Number	CLE-0122-700
Nominal Range	0 to 200 ppm
Maximum Overload	1000 ppm
Sensitivity	0.37 ± 0.07 µA/ppm
Baseline (20 °C)	< ± 0.4 µA
Baseline Drift (-20 to 50 °C)	0 to 0.5 ppm equivalent
Resolution	0.25 ppm
Response Time (T₉₀)	≤ 30 seconds
Linearity	Linear
Long Term Output Drift	< 2% signal/month

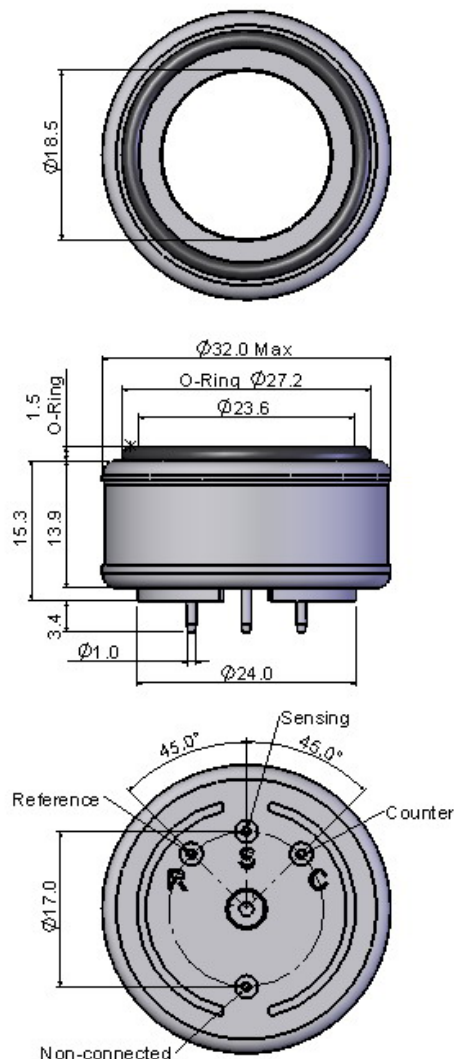
Operation Conditions

Temperature Range	-20 °C to 50 °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	18 months from date of despatch

Physical Characteristics

Weight	8 g (approx)
Orientation Sensitivity	None

Outline Dimensions



All dimensions are in millimeters.
All tolerances are ± 0.2 mm.

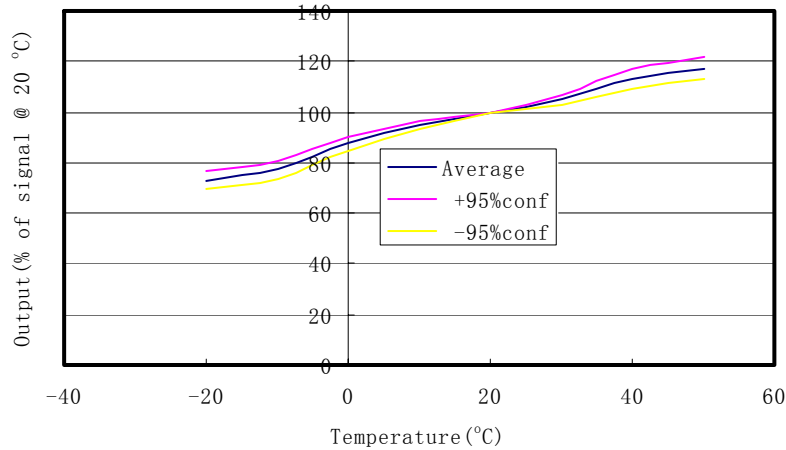
Note: PCB sockets are recommended for the sensor pin connection. Soldering to the sensor should be avoided.

Note: All performance specifications are based upon the following environment conditions: 20°C, 50% relative humidity and 1 atm (1013 mBar or ambient pressure).

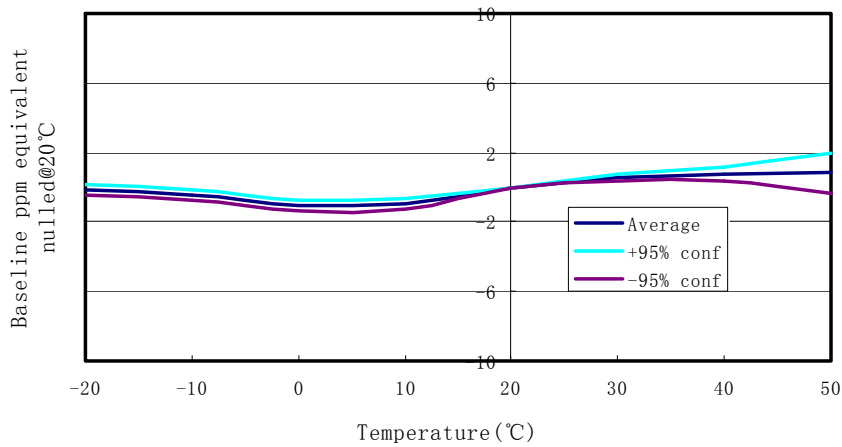
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Temperature Dependence

Output vs Temperature



Baseline vs Temperature



Cross-sensitivity Data (20 °C)

Gas	Concentration (ppm)	Output Signal (ppm H ₂ S equivalent)
Carbon Monoxide	300	≤6
Sulphur Dioxide	5	1
Nitric Oxide	35	≤0.7
Nitrogen Dioxide	5	-1
Hydrogen	10000	<15
Ethylene	100	0

- Notes:** 1. Calibration with cross sensitivity gas is not recommended.
 2. The cross sensitivity may fluctuate between +/- 30% and may differ from batch to batch or from sensor's life time.
 3. The cross sensitivities are including but not limited to the above gases. It may also respond to other gases.

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