Classic Line 4-H_2S-100 (LA) Sensor

SolidsenSe Gas Sensors

Hydrogen Sulfide Sensor 0-100 ppm (Low Alcohol Cross)

Performance Characteristics

Part Number	CLE-0112-402
Nominal Range	0 to 100 ppm
Maximum Overload	500 ppm
Sensitivity	0.8 ± 0.2 µA/ppm
Baseline（20 °C）	< ± 0.4 µA
Baseline Drift (-20 to 50 °C)	0 to - 0.2 ppm equivalent
Resolution	0.1 ppm
Response Time (T_{90})	≤ 20 seconds
Linearity	Linear
Long Term Output Drift	< 2% signal/month

Operation Conditions

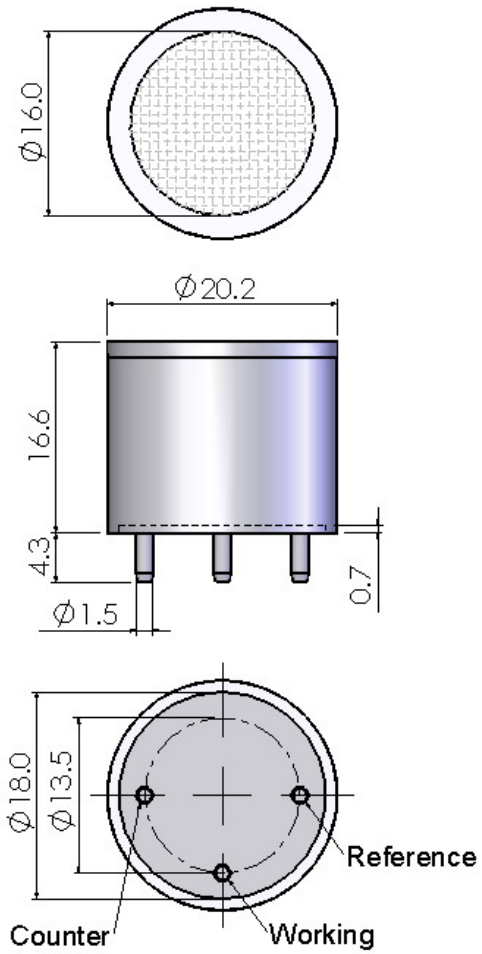
Temperature Range	-20 °C to 50 °C
Operating Humidity	15 to 90%RH non-condensing
Pressure Range	90 to 110 kPa
Bias Potential	0 mV
Storage Life	6 months in sealed container
Storage Temperature	0 °C to 20 °C
Expected Operating Life	2 years in air
Warranty	18 months from date of despatch

Physical Characteristics

Weight	5 g (approx)
Orientation Sensitivity	None

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

Outline Dimensions



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

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

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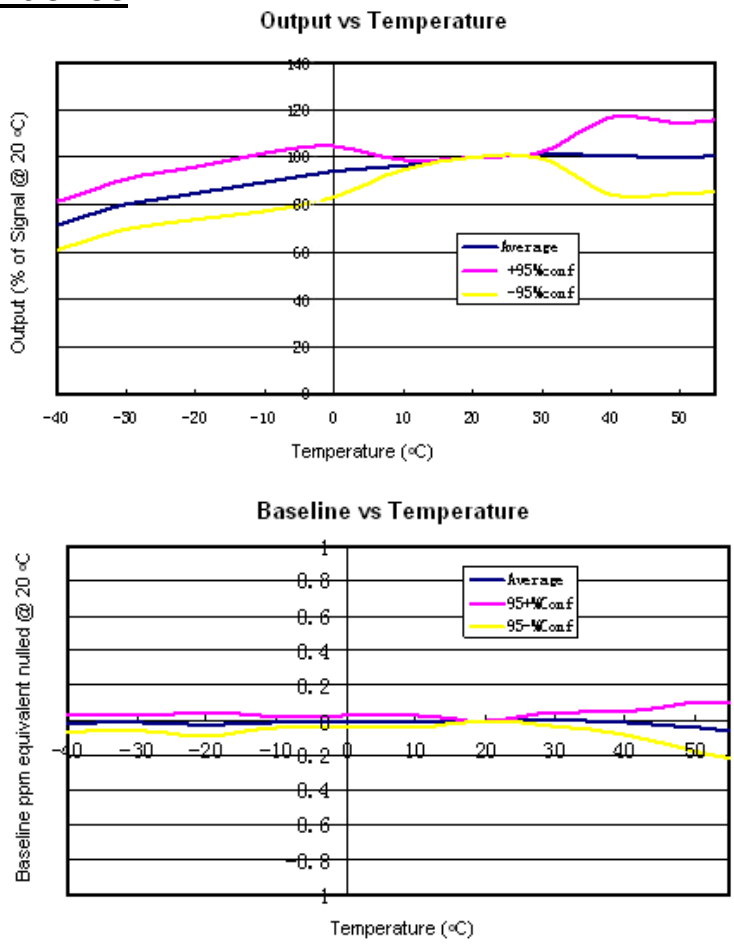
Temperature Dependence



Cross-sensitivity Data

Gas	Concentration (ppm)	Output Signal (ppm H_2S equivalent)
Carbon Monoxide	300	≤6
Sulphur Dioxide	5	1
Nitric Oxide	35	1
Nitrogen Dioxide	5	-1
Hydrogen	10000	25
Ethylene	100	0
Ethanol	5000	+/-1.5

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.