Classic Line 7-HCN-50 Sensor

SolidsenSe
Gas Sensors

Hydrogen Cyanide Sensor 0-50 ppm

Performance Characteristics

Part Number	CLE-0731-700
Nominal Range	0 to 50 ppm
Maximum Overload	100 ppm
Sensitivity Range	0.010 ± 0.04 μA/ppm
Zero Signal	< ± 0.2 μA
Baseline Drift (-20 °C to 50 °C)	0 to 0.5 ppm equivalent
Resolution	0.2 ppm
Response Time (T_{90})	≤ 60 seconds
Linearity	Linear
Long Term Output Drift	< 2% signal/month

Operation Conditions

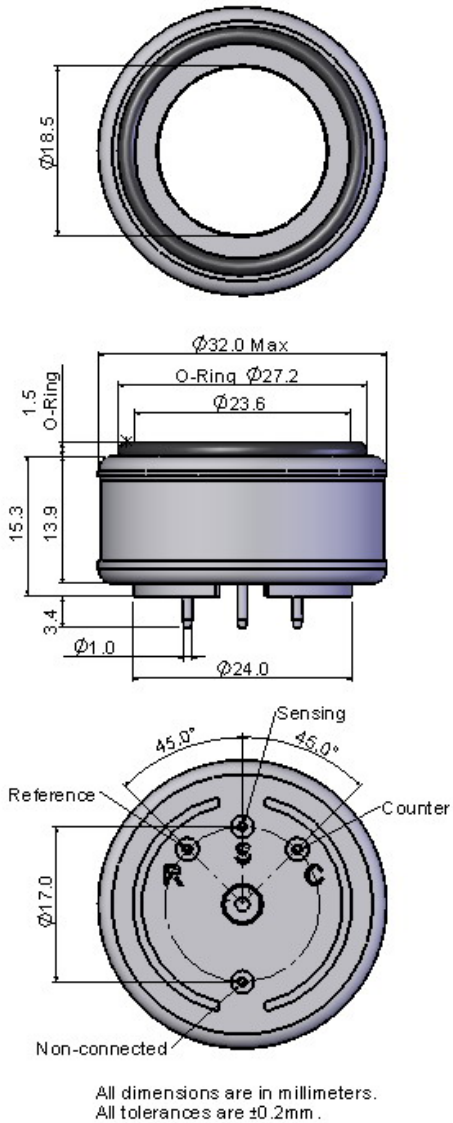
Temperature Range	-20 °C to 50 °C
Operating Humidity	15 to 90%RH non condensing
Pressure Range	90 to 110 Kpa
Bias Potential	0 mV
Storage Life	6 months in sealed container
Storage Temperature	0 °C to 20 °C
Expected Operating Life	2 years in air
Warranty	12 months from date of despatch

Physical Characteristics

Weight	8 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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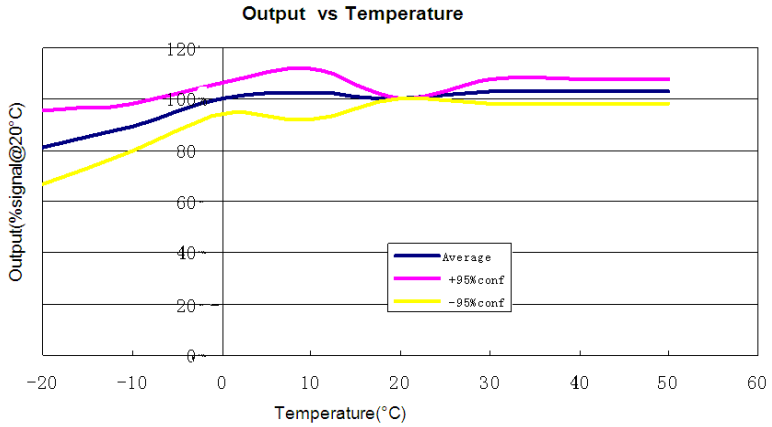
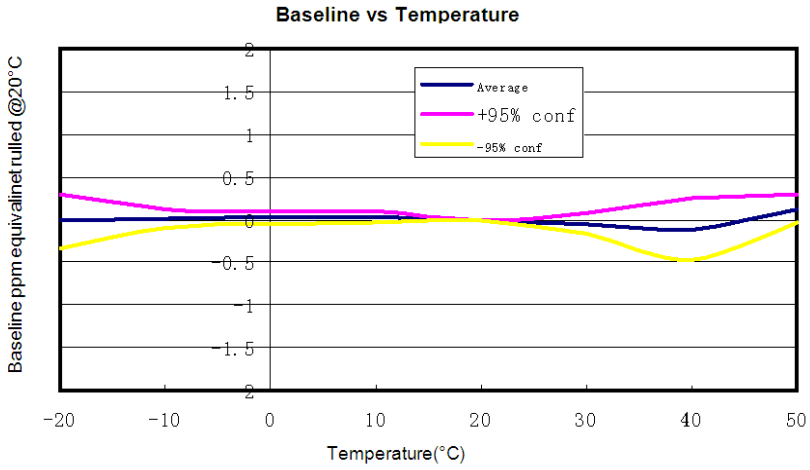
Temperature Dependence





Cross-sensitivity Data

Gas	Concentration (ppm)	Output Signal (ppm HCN equivalent)
Carbon Monoxide	300	1
Sulphur Dioxide	5	1
Nitrogen Dioxide	5	-2
Hydrogen Suffide	15	10
Nitric Oxide	35	-1
Ethylene	100	1

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.