

Phosphine Sensor 0-2000 ppm

Performance Characteristics

Part Number	CLE-1123-700
Nominal Range	0 to 2000 ppm
Sensitivity Range	0.07 ± 0.04 µA/ppm
Zero Signal	< ± 0.4 µA
Baseline Drift (-20 °C to 50 °C)	0 to 10 ppm equivalent
Resolution	1 ppm
Response Time (T₉₀)	≤ 60 seconds
Linearity	Linear
Long Term Output Drift	< 2% signal/month

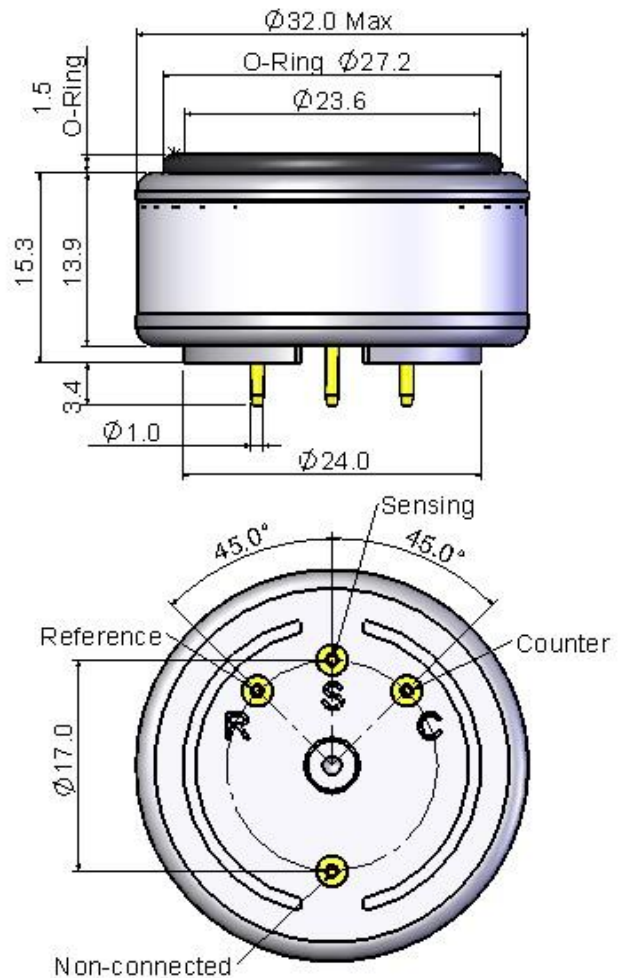
Operation Conditions

Temperature Range	-20 °C to 50 °C
Operating Humidity	15 to 90%RH non-condensing
Pressure Range	Atmospheric ± 10%
Bias Potential	0 mV
Storage Life	6 months in RAE 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

Outline Dimensions

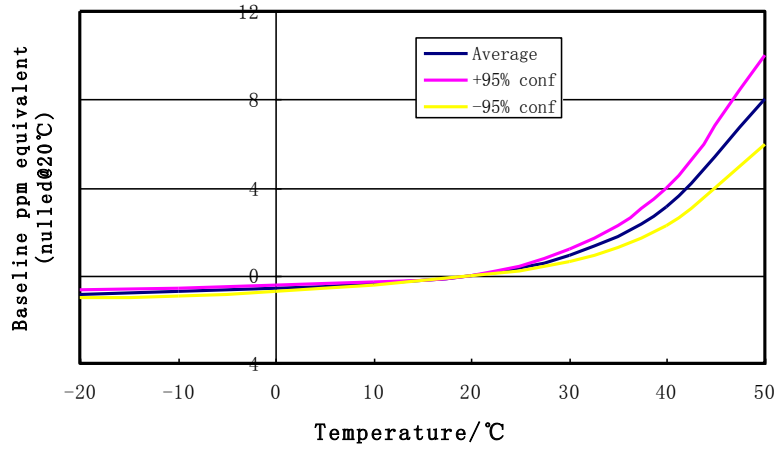


All dimensions in mm
All tolerances ±0.2mm
unless otherwise stated

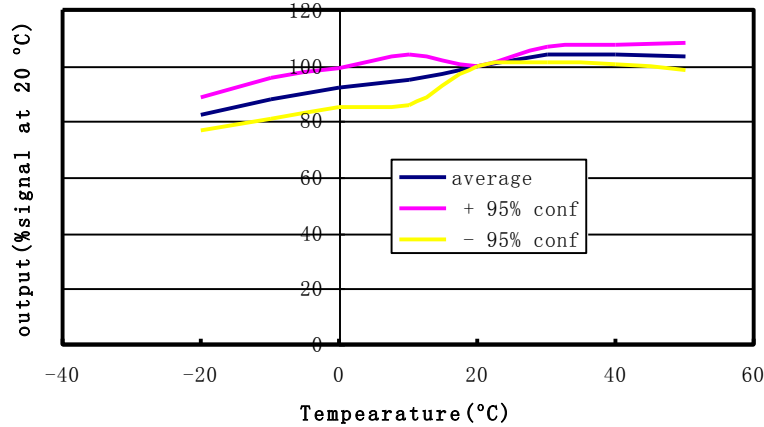
Note: PCB sockets are recommended for the sensor pin connection. Soldering to the sensor should be avoided.

Temperature Dependence

Baseline drift of 7R PH₃-2000 sensor



7PH₃-2000-Sensitivity vs. Temperature



Cross-sensitivity Data

Gas	Concentration (ppm)	Output Signal (ppm equivalent)
Carbon Monoxide	1000	1
Sulphur Dioxide	5	1
Nitrogen Dioxide	5	-1.5
Hydrogen Sulfide	15	6
Nitric Oxide	35	0
Hydrogen	1000	1
Ammonia	35	1
Ethylene	100	0

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.