

## Classic Line 4-H<sub>2</sub>-1000 Sensor

### Hydrogen Sensor 0-1000 ppm

#### Performance Characteristics

Part Number	CLE-0613-400
Nominal Range	0 to 1000 ppm
Maximum Overload	2000 ppm
Sensitivity	0.02 ± 0.01 μA/ppm
Baseline ( 20 °C )	< ± 0.2 μA
Baseline Drift (-20 °C to 50 °C)	0 to 10 ppm equivalent
Resolution	10 ppm
Response Time (T <sub>90</sub> )	≤ 70 seconds
Linearity	Linear
Long Term Output Drift	< 2% signal/month

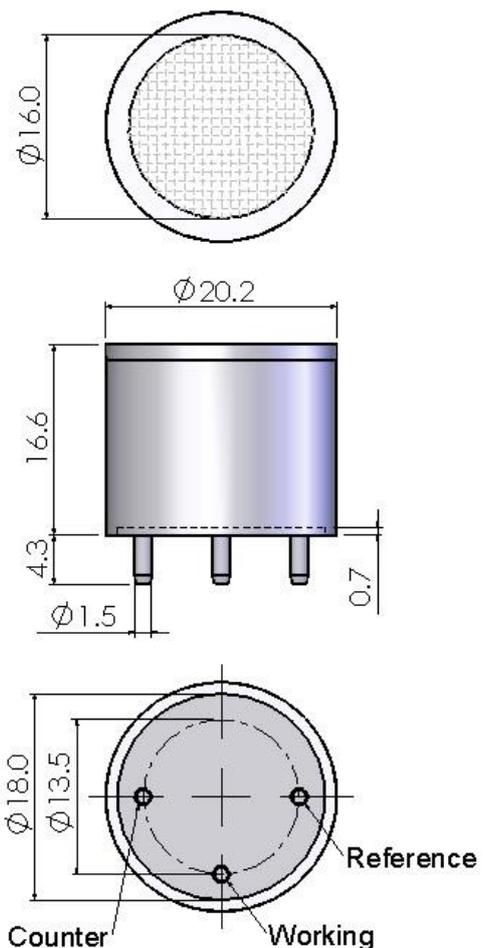
#### Operation Conditions

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	5 g (approx)
Orientation Sensitivity	None

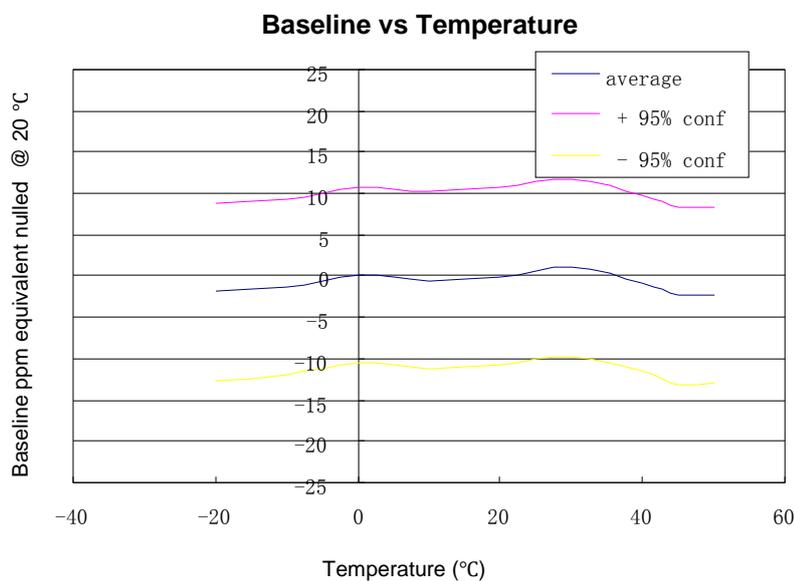
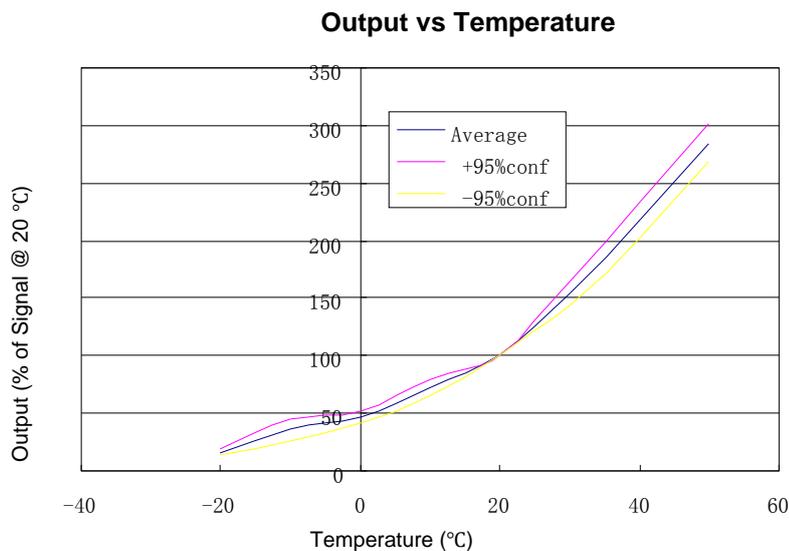
#### Outline Dimensions



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.

## Classic Line 4-H<sub>2</sub>-1000 Sensor Temperature Dependence



### Cross-sensitivity Data

Gas	Concentration (ppm)	Output Signal (ppm H <sub>2</sub> equivalent)
Hydrogen Sulfide	24	0
Sulfur Dioxide	5	0
Nitric Oxide	35	10
Nitrogen Dioxide	5	0
Carbon Monoxide	50	200
Ethylene	100	80
Chlorine	10	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.