

## Ethylene Oxide Sensor 0-10 ppm

### Performance Characteristics

<b>Part Number</b>	CLE-1212-400
<b>Nominal Range</b>	0 to 10 ppm
<b>Sensitivity</b>	1.9 ± 0.8 µA /ppm
<b>Baseline ( 20 °C )</b>	-0.2 to 2.5 µA
<b>Baseline Drift (-20 °C to 50 °C)</b>	0 to 2 ppm equivalent
<b>Resolution</b>	0.1 ppm
<b>Response Time (T90)</b>	≤ 120 seconds
<b>Linearity</b>	Linear
<b>Long Term Output Drift</b>	< 2% signal/month

### Operation Conditions

<b>Temperature Range</b>	-20 °C to 50 °C
<b>Operating Humidity</b>	15 to 90%RH non-condensing
<b>Pressure Range</b>	90 to 110 kPa
<b>Bias Potential</b>	+ 300 mV
<b>Storage Life</b>	6 months in sealed container
<b>Storage Temperature</b>	0 °C to 20 °C
<b>Sensor Life Expectancy</b>	2 years
<b>Warranty</b>	12 months from date of despatch

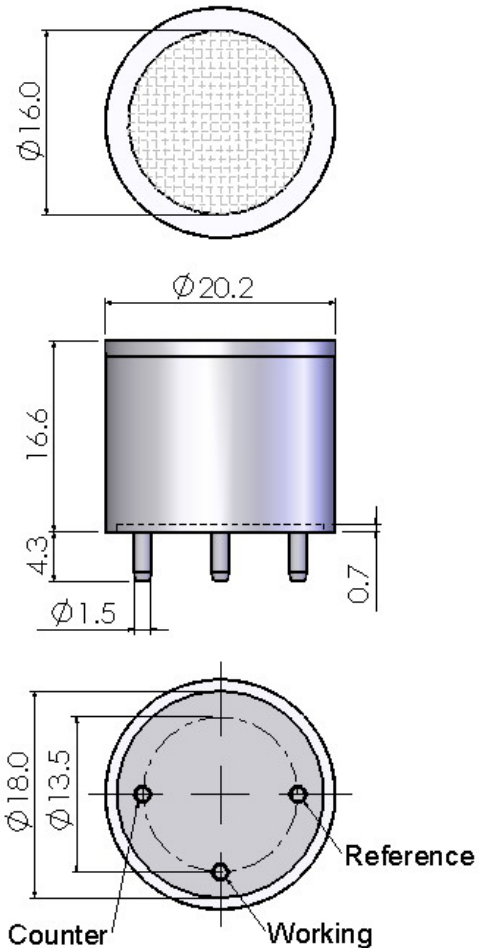
### Physical Characteristics

<b>Weight</b>	5 g (approx)
<b>Orientation Sensitivity</b>	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).

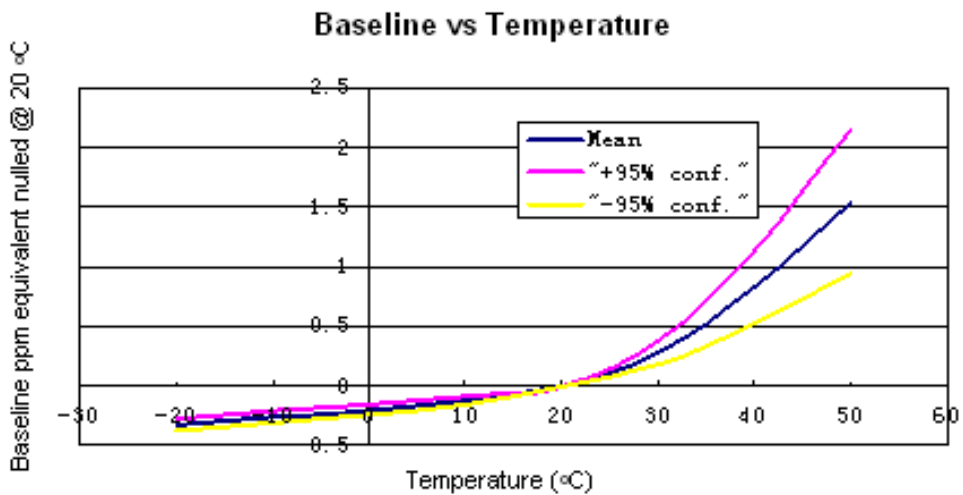
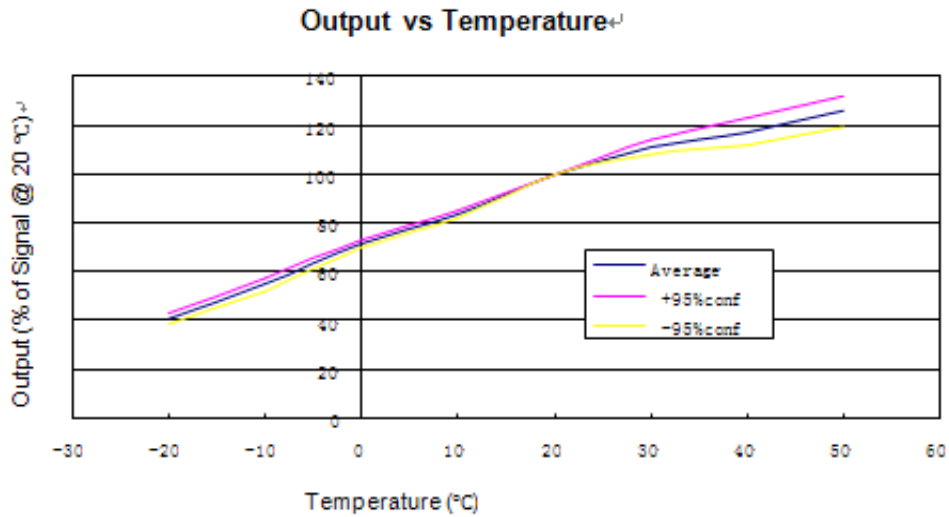
### Outline Dimensions



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

Temperature Dependence



## Cross-sensitivity Data

Gas	Correction Factor to ETO
Ethylene Oxide	1.0
Carbon Monoxide	2.5
Ethanol	0.8
Methanol	0.3
Isopropanol	1.3
Formaldehyde	0.4
i-Butylene	0.9
Butadiene	0.3
Ethylene	0.7
Propene	0.8
Vinyl Chloride	1.3
Vinyl Acetate	0.5
Formic Acid	1.4
Acrylonitrile	2.5

\* Correction Factor of ETO= Sensitivity of ETO/Sensitivity of test gas.

**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.