

**Ethylene Oxide Sensor 0-100 ppm**

**Performance Characteristics**

<b>Part Number</b>	CLE-1212-700
<b>Nominal Range</b>	0 - 100 ppm
<b>Sensitivity</b>	0.25 ± 0.125 µA/ppm
<b>Baseline (20 °C)</b>	-0.2 ~ 2.5 µA
<b>Baseline Drift (-20 to 50 °C)</b>	0 to 10 ppm equivalent
<b>Resolution</b>	1 ppm
<b>Response Time (T90)</b>	≤ 120 seconds
<b>Linearity</b>	Linear
<b>Long Term Output Drift</b>	<2% signal/month

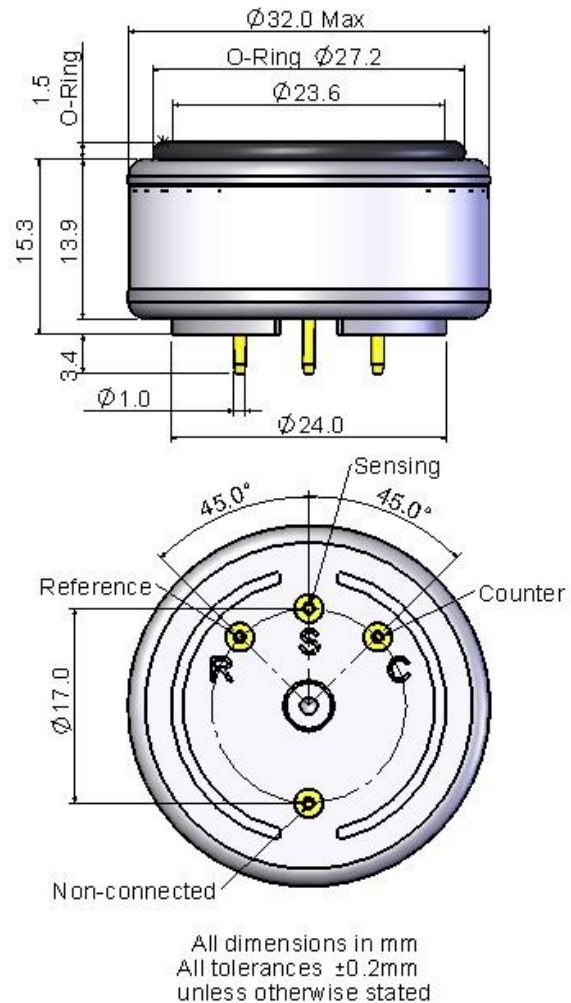
**Operation Conditions**

<b>Temperature Range</b>	-20°C to 50°C
<b>Operating Humidity</b>	15 ~ 90%RH non-condensing
<b>Pressure Range</b>	Atmospheric ±10%
<b>Bias Potential</b>	+ 300 mV
<b>Storage Life</b>	6 months in RAE container
<b>Storage Temperature</b>	0 °C to 20°C
<b>Expected Operating Life</b>	2 years in air
<b>Warranty</b>	12 months from date of despatch

**Physical Characteristics**

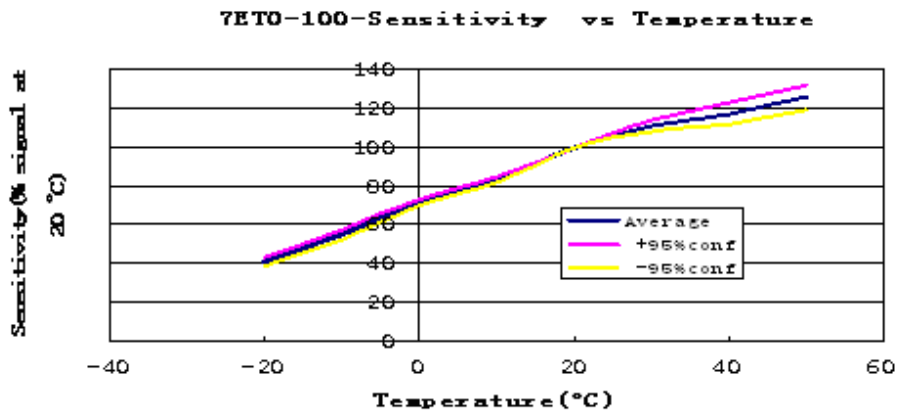
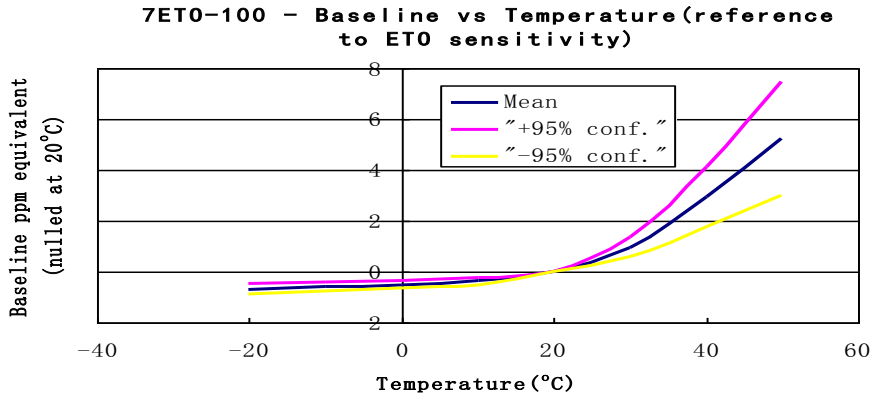
<b>Weight</b>	8 g (approx)
<b>Orientation Sensitivity</b>	None

**Outline Dimensions**



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

Temperature Dependence



**Cross-sensitivity Data (20 ° C)**

<b>Gas</b>	<b>Correction Factor to ETO</b>
Ethylene Oxide	1.0
Carbon Monoxide	2.5
Ethanol	2.0
Methanol	0.5
Isopropanol	5.0
i-Butylene	2.5
Butadiene	0.9
Ethylene	0.8
Propene	1.7
Vinyl Chloride	1.3
Vinyl Acetate	2.0
Formic Acid	3.3
Ethyl ether	2.5
Formaldehyde	1.0

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

**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.