MICROceL™

Oxygen Sensor Specification

MICROceL™ OX Miniature Oxygen Sensor

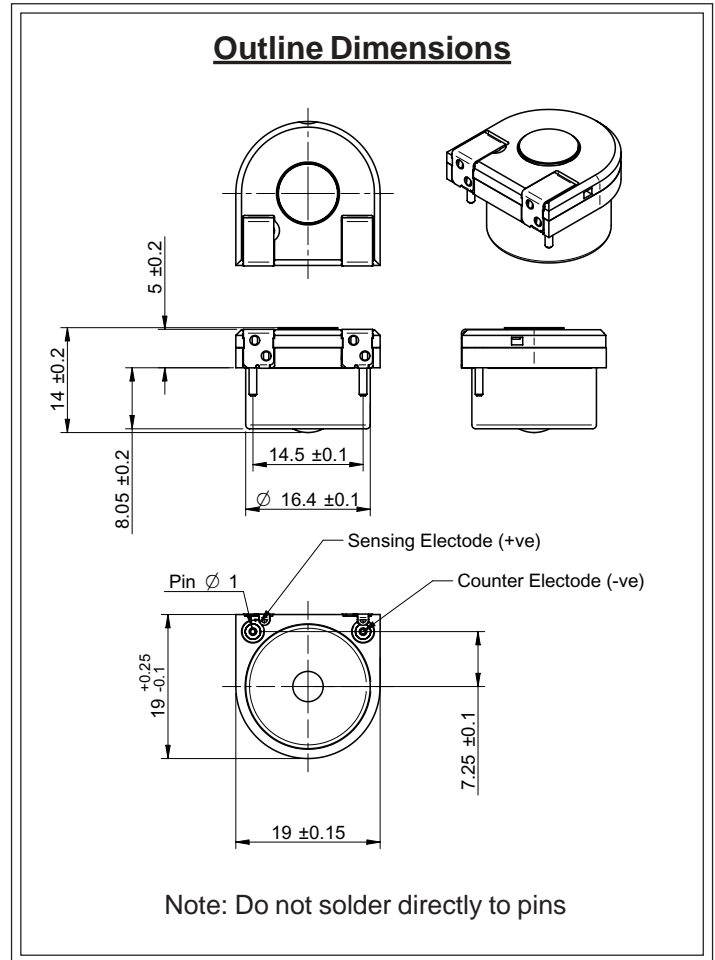N.B.   All performance data is based on conditions at 22°C, 50%RH, and 1014mBar

Performance Characteristics

Expected Operating Life	2 Years in Air
Range	0-25% O2
Maximum Overload	30% O2
Output Signal	40-70μA in Air
T_{90} Response Time	< 15 seconds (typically 3-4 seconds)
Linearity	$s = k\log_e 1/(1-c)$
Temperature Range	-20°C to +50°C
Temperature Coefficient	0.2% signal change/°C (see graph overleaf)
Humidity (Intermediate) (Continuous)	0-99% RH non-condensing 15-90% RH non-condensing
Pressure Range	Atmospheric ±10%
Pressure Coefficient	<0.02% signal/mBar
Long Term Drift	<10% signal loss/year
Recommended Load Resistor	<100 Ohms (See graph overleaf)

Physical Characteristics

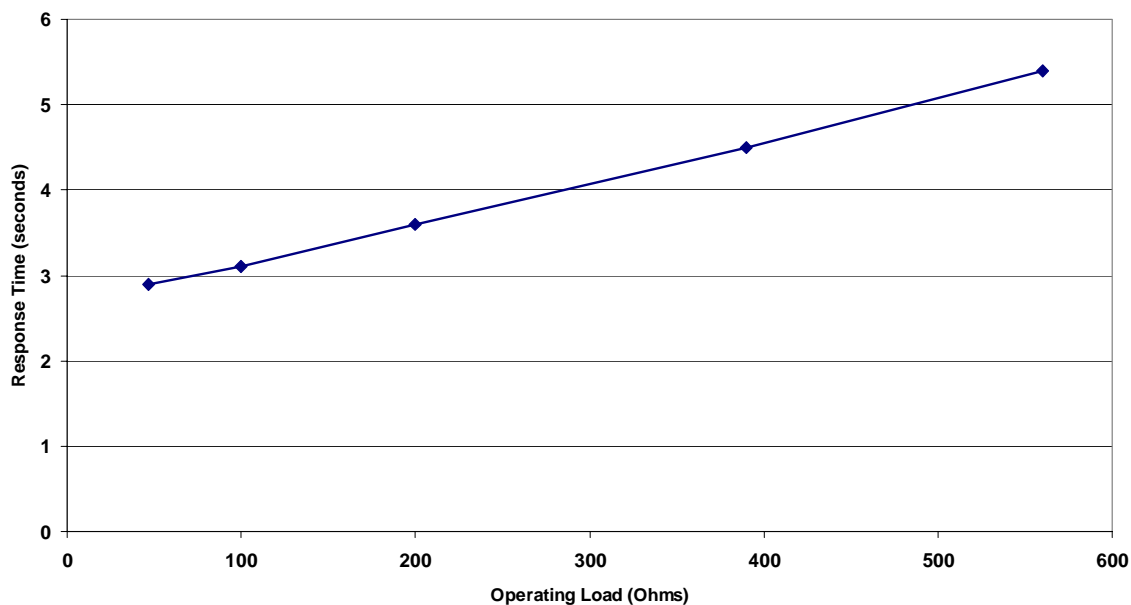|	
Weight	8g approx.
Position Sensitivity	None
Storage Life	Six months in CTL packaging
Recommended Storage Temperature	0°C to 20°C
Warranty Period	24 months from date of despatch (This amounts to a variation of condition 6 of our standard tems and conditions which otherwise apply)

Outline Dimensions

5 ±0.2
14 ±0.2
8.05 ±0.2
14.5 ±0.1
Ø 16.4 ±0.1
Sensing Electode (+ve)
Pin Ø 1
Counter Electode (-ve)
19 +0.25 -0.1
7.25 ±0.1
19 ±0.15

Note: Do not solder directly to pins

MICROceL OX - Output vs Temperature
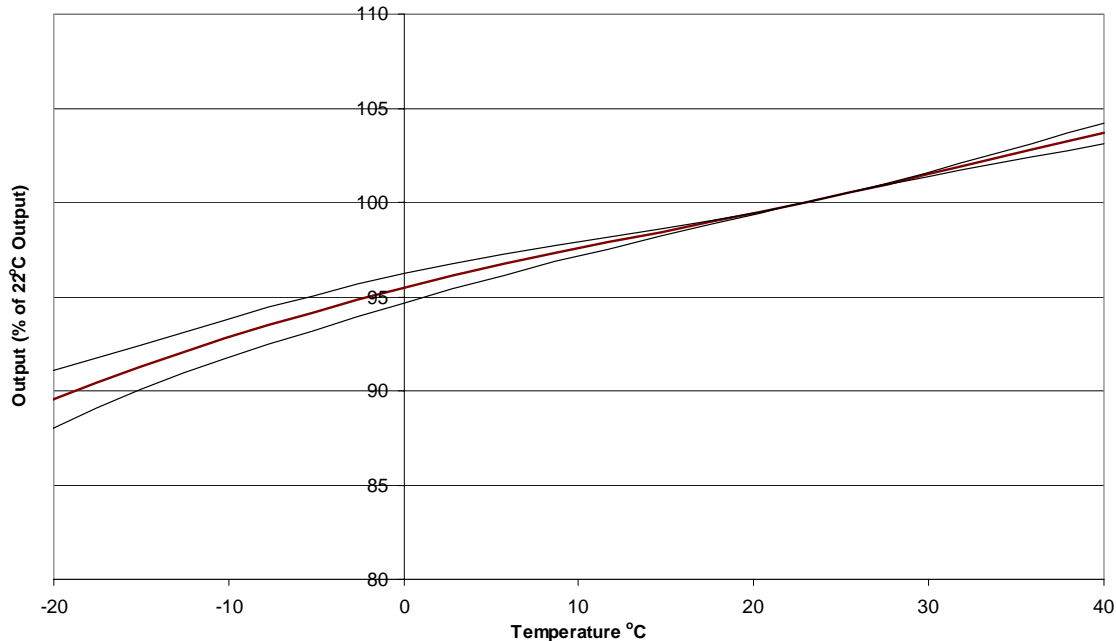
MICROceLOX - Response Time vs Operating Load