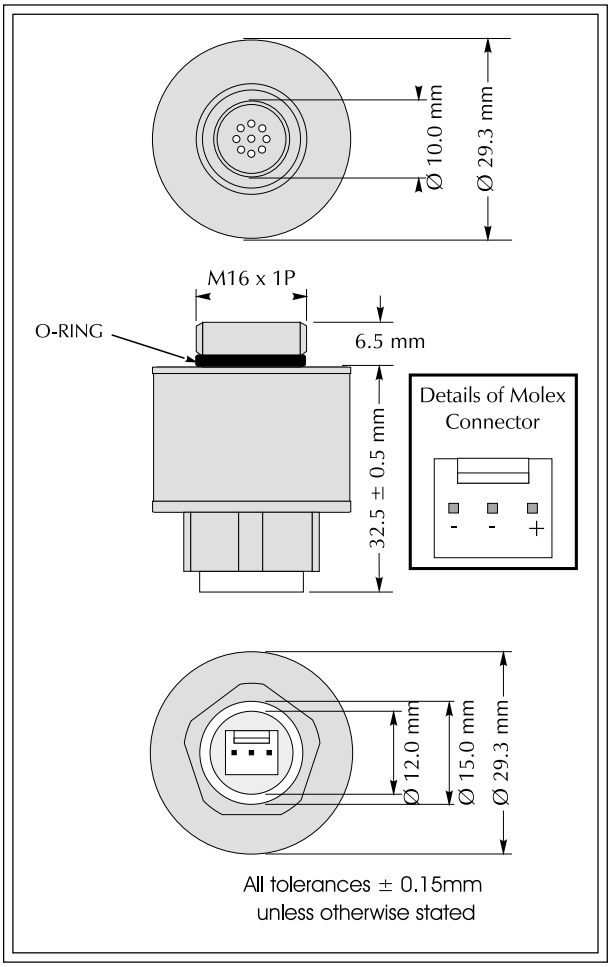
AO2 CiTiceL®

with Molex connector

Performance Characteristics

Output	9 - 13mV in Air
Range	0-100% O_2
Resolution	0.01% O_2
Expected Operating Life	360000%O_2hrs at 20°C 286000%O_2hrs at 40°C or 2 years in air at STP
T_{90} Response Time **$T_{99.5}$ Response Time***	<5 seconds <40 seconds
Signal in 100%O_2	100±1%
Linearity	Linear 0-100% O_2
Zero Offset	<20µV
Temperature Range	-20°C to +50°C
Temperature Compensation	<2% variation from 0°C to 40°C (see graph)
Differential Pressure Range	0-500mbar Max
Absolute Pressure Range	500-2000mbar
Relative Humidity Range	0 to 99% non-condensing
Long Term Output Drift	<10% signal loss/year
Recommended Load Resistor	Min 10KΩ
Warranty Period	12 month from date of despatch



* $T_{99.5}$ response is equivalent to a change in concentration from 20.9% O_2 to 0.1% O_2

N.B. All performance data is based on conditions at 20°C, 50%RH, and 1013mBar

NOTE

Molex header used in sensor is MOLEX 22-29-2031

Suggested mating parts are:

Molex 22-01-2035: 3-way housing

Molex 08-56-0110: crimp terminals

AO2 CiTiceL to be assembled into application 'finger tight' only

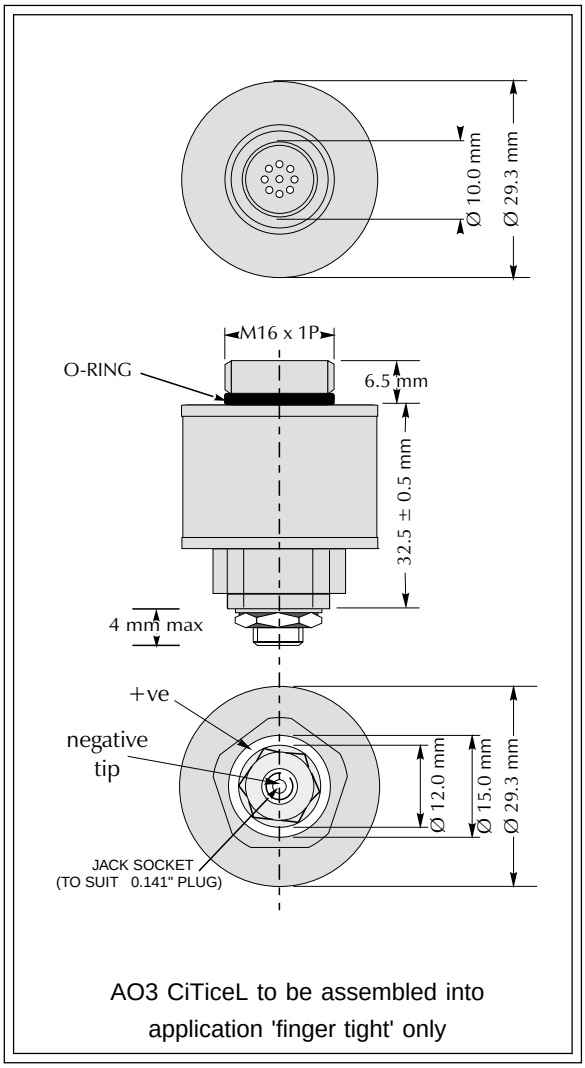
City Technology Ltd, City Technology Centre, Walton Rd, Portsmouth PO6 1SZ, UK
Tel:+44 23 9232 5511, Fax:+44 23 9238 6611, sensors@citytech.co.uk, www.citytech.com

AO3 CiTiceL®

with jack socket connector

Performance Characteristics

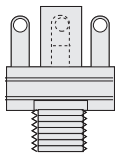
Output	9 - 13mV in Air
Range	0-100% O_2
Resolution	0.01% O_2
Expected Operating Life	360000%O_2hrs at 20°C 286000%O_2hrs at 40°C or 2 years in air at STP
T_{90} Response Time **$T_{99.5}$ Response Time***	<5 seconds <40 seconds
Signal in 100%O_2	100±1%
Linearity	Linear 0-100% O_2
Zero Offset	<20µV
Temperature Range	-20°C to +50°C
Temperature Compensation	<2% variation from 0°C to 40°C (see graph)
Differential Pressure Range	0-500mbar Max
Absolute Pressure Range	500-2000mbar
Relative Humidity Range	0 to 99% non-condensing
Long Term Output Drift	<10% signal loss/year
Recommended Load Resistor	Min 10KΩ
Warranty Period	12 month from date of despatch



AO3 CiTiceL to be assembled into application 'finger tight' only

* $T_{99.5}$ response is equivalent to a change in concentration from 20.9% O_2 to 0.1% O_2

N.B. All performance data is based on conditions at 20°C, 50%RH, and 1013mBar



0.141" Jack Socket Connector (Switchcraft part # 42A)

Negative tip of 0.141" Miniature Phone Plug (suggested part # Switchcraft 750)

Details of Jack Socket Connection

City Technology Ltd, City Technology Centre, Walton Rd, Portsmouth PO6 1SZ, UK
Tel:+44 23 9232 5511, Fax:+44 23 9238 6611, sensors@citytech.co.uk, www.citytech.com