

..: KEY FEATURES :.

Lead free sensor, RoHS conform, long life-expectancy, fully CO2 resistant.

All characteristics are based on conditions at 25°C, 50% RH and 1013 hPa.

Measurement Range:	0 to 100 Vol.%
Expected Operating Life:	~ 1,200,000 Vol.% h
Sensor Lifetime:	< 6 years @ ambient air, depending on application
Electrical Connector:	3-pin Molex®
Initial Output Signal:	9.0 to 14.0 mV @ dry ambient air
Output Signal Range:	5.0 to 15.0 mV @ dry ambient air
Response Time t_{90} :	< 10 s
Drift:	< 1 % per month, averaged across 12 months
Linearity Error:	0 to 2 Vol.% O ₂ : ± 0.1 absolute 2.1 to 100 Vol.% O ₂ : ± 0.5 relative
Repeatability:	± 1 % Vol. O ₂ @ 100 Vol.% O ₂ applied for 5 min
Zero Offset Voltage:	< 200 µV in 100 % N ₂ applied for 5 min
Operating Temperature:	0 to 45 °C
Pressure Range:	700 to 1250 hPa
Influence of Humidity:	- 0.03 % rel. O ₂ reading per % RH
Temperature Compensation:	NTC on sensor PCB
Recommended Load Resistor:	> 1 MOhm
Interferences:	< 20 ppm O ₂ response to: 100 Vol.% CO 3,000 ppm NO, balance to N ₂ 100 Vol.% CO ₂ 1,000 ppm H ₂ , balance to N ₂ 100 Vol.% C ₃ H ₈ 2,000 ppm H ₂ S, balance N ₂ 1,000 ppm Benzene, balance N ₂ 500 ppm SO ₂ , balance N ₂
Weight:	approximately 25 g
Material in Contact with Media:	ABS, PVC, PPS, PTFE, stainless steel



∴ STORAGE CONDITIONS ∴

Temperature Range:	recommended: 5 to 30 °C
	maximum (≤ 10h):: - 20 to 50 °C
Humidity:	up to 100 % RH
Ambient Pressure:	600 to 1250 hPa
Shelf Life:	< 6 months recommended

.. RELATED PRODUCTS ..

Product	Part-No.	Housing Colour
O ₂ - Sensor I-103	48 03 14	white