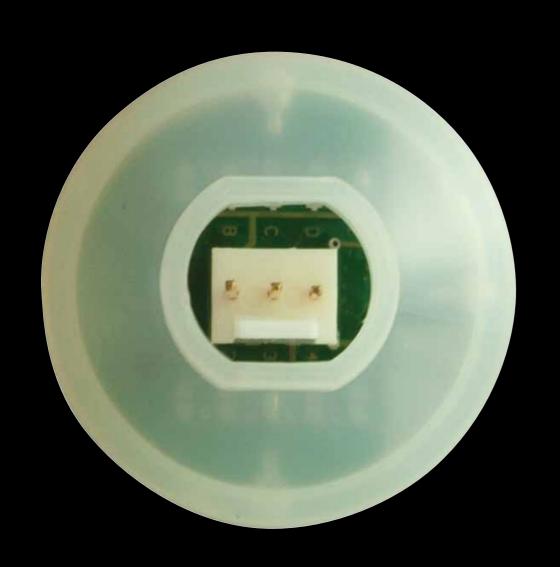


SC-122D Oxygen Sensor

Leading the industry in performance and reliability





SC-I22D 9 - 13 mV3 pin Molex Threaded M16 x 1mm Yes

0 – 100% oxygen 600 to 2500 mbar

0.1 to 1.0 bar < 3% relative 0.1 to 2.5 bar < 5% relative

< 30 minutes after sensor installed

< 0.5% oxygen reading in 100% nitrogen @ 25 °C after 36 seconds

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<0.5% vol. O₂ response to 5% CO₂ balance N₂

< 5 s for 90% of final value 0 – 99% R.H. (non-condensing) -0.03% relative per % R.H. at 25 °C

< 1% after fall from 1m

0 - 40 °C -20 to +50 °C +5 to +15 °C

Integrated NTC network

±5% of full scale over the operating temperature range. Worst case tracking error (within first hour after maximum temperature step) is ±7.5% of full scale, (gas sample must be brought to ambient temperature). Percent readout is only within ±1% at constant pressure (e.g. a 10% increase in pressure will result in a 10% increase in reading).

≥ 33 months in air at 25 °C and 50% R.H.

< 1% vol oxygen per month, typically < -15% over sensor lifetime

24 months ≥ 10 K Ohms

Yes Yes Yes 28 g

> Gas barrier bag 12 months

ISC part number Output **Output connector** Input **Input O ring** Range Pressure range **Linearity error**

Warm up time **Zero offset voltage Cross interference** Response time **Operating humidity Influence of humidity** Influence of mechanical shock **Operating temperature range Storage temperature** Recommended storage temperature **Temperature compensation Temperature compensation error**

Nominal sensor life Long term output drift **Shelf life Load required**

Input - hydrophobic membrane Conformal coating on PCB Pressure equalization - PCB

Weight (approximate)

Packaging Warranty period

All specifications are applicable at standard conditions: 1013 mbar, 25 °C dry ambient air.