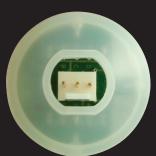


SC-122D Oxygen Sensor

Leading the industry in performance and reliability





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

Packaging Warranty period

Weight (approximate)



SC-I22D
9 – 13 mV
3 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

<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

 $\pm 5\%$ of full scale over the operating temperature range. Worst case tracking error (within first hour after maximum temperature step) is $\pm 7.5\%$ of full scale, (gas sample must be brought to ambient temperature). Percent readout is only within $\pm 1\%$ 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

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

