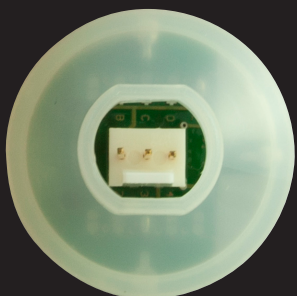




SC-I22D Oxygen Sensor

Leading the industry in
performance and reliability



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

SC-I22D
9 – 13 mV
3 pin Molex
Threaded M16 x 1mm
Yes

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

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
±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).

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

≥ 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.

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