

Measurement Range:	0 % ... 100 % oxygen																												
Output in Ambient Air:	6.5 to 9 mV																												
Electrical Interface:	Flying leads with 3 pin female connector (Molex® 22-01-2037)																												
Repeatability:	< 1% vol. O ₂ @ constant temperature and pressure																												
Linearity error:	0.1 to 1.0 bar ppO ₂ < 3% relative 0.1 to 2.5 bar ppO ₂ < 5% relative (at ppO ₂ > 1.0 bar after 1 h equilibration time)																												
Accuracy at constant temperature, pressure and humidity	Accuracy – Within + / - 3% of reading (or ±5 mBar Oxygen whichever is greater) up to specified range, when calibrated using 100% oxygen at known atmospheric pressure and 25 °C Acceptable limits are <table><tr><td></td><td colspan="2">Error mBar pO2</td><td></td></tr><tr><td>mBar pO2</td><td>Min</td><td>Max</td><td></td></tr><tr><td>209</td><td>-4</td><td>4</td><td></td></tr><tr><td>1000</td><td>0</td><td>0</td><td>Calibration point</td></tr><tr><td>1500</td><td>-30</td><td>30</td><td></td></tr><tr><td>2000</td><td>-75</td><td>75</td><td>Specified Range</td></tr><tr><td>2300</td><td>-100</td><td>100</td><td>Over-range capability</td></tr></table> Hysteresis after use at high pressure according to accuracy specification (Within + / - 3% of reading)		Error mBar pO2			mBar pO2	Min	Max		209	-4	4		1000	0	0	Calibration point	1500	-30	30		2000	-75	75	Specified Range	2300	-100	100	Over-range capability
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Response time:	< 5 sec. to 90% of final value																												
Zero Offset Voltage:	< 0.5% oxygen reading in 100% nitrogen @ 25°C after 36 seconds																												
Cross Interference:	< 0.5% vol. O2 response to: 5% CO2 balance N2																												
Influence of Humidity:	- 0.03% rel. per % RH at 25 °C																												
Pressure Range:	600 to 2500 mbar																												
Influence of Mechanical Shock:	< 1% relative after a fall from 1m																												
Operating Temperature:	0°C to 50 °C																												
Temperature Compensation:	Built-in NTC compensation																												
Effect of Temperature Compensation (steady state):	Between 0 °C and +50 °C: 5% relative error																												
Operating Humidity:	0 - 99% RH non-condensing																												
Long Term Output Drift:	< 1% vol. oxygen per month, Typically < -15% relative over lifetime																												
Storage Temperature:	-20 °C to +50 °C																												
Recommended Storage:	+5 °C to +15 °C																												
Recommended Load:	≥10 kOhms																												
Warm-Up Time:	< 30 minutes, after replacement of sensor																												
Nominal Sensor Lifetime:	500,000% vol oxygen hours																												
Weight:	Approximately 28 grams																												
Warranty Period:	15 months (including 3-month shelf life)																												
Typical Lifetime	20 to 24 months from shipment (including shelf life) in air at 25 °C.																												
Electrical output	30-60 Microamperes in air @ 25 °C sea level																												
Packaging	In plastic bag																												
Part No.:	OOD103-JFD: 1002461 (REF DB200381)																												

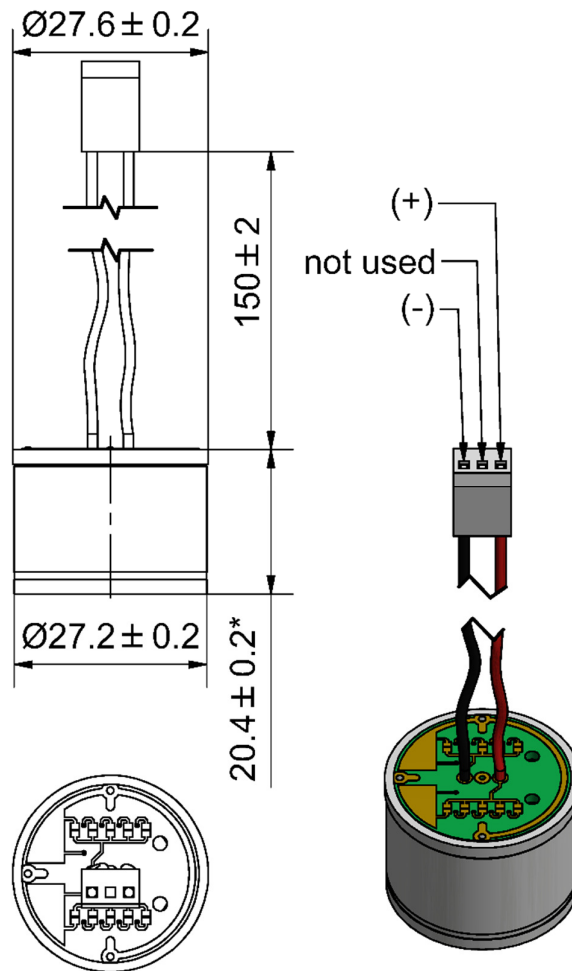
All specifications are applicable at standard conditions: 1013 mbar, 25 °C dry ambient air.

Product Specification
Oxygen Sensor
OOD103-JFD

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Mechanical draft:



General tolerances ISO 2768-c

*Sensor housing without PCB

Remove Molex connector after QA testing.

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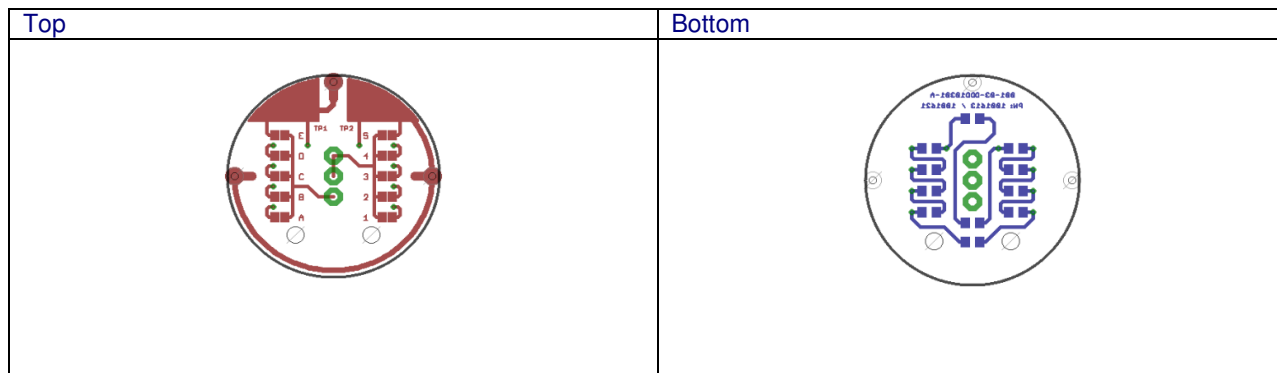
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Customized Design Specification:

- Integration of additional Zitex membrane in sensor gas diffusion way
- using of non magnetic components for the sensor
- Conformal coating on the sensor PCB with PLASTIK 70
- 2 x 2mm holes drilled in the sensor PCB
- No information about EnviteC on PCB top / bottom sides, information for ordering process and traceability only.

PCB Layout:



Product Labeling

OOD103-JFD: 1002461 (REF DB200381)	
Label on Sensor (90x15)	Label on Blister- Card (63,5x46,6)
 JFD Ltd. Enterprise Drive Westhill, Aberdeen AB32 6TQ United Kingdom Oxygen Sensor P/N: DB200381    S/N: 123456 2018-07	 JFD Ltd. Enterprise Drive Westhill, Aberdeen AB32 6TQ United Kingdom Oxygen Sensor P/N: DB200381  2018-07   S/N 123456    This oxygen sensor contains caustic liquid, in case of leakage avoid contact with eyes and skin. Do not puncture or staple this bag. Do not remove the oxygen sensor from this bag until ready to use. Depending upon the ambient conditions the oxygen sensor may require 30 minutes to reach signal stability after installation.

Customer Approval

Date:

Signature: