Product Specification Oxygen Sensor OOD103-3V



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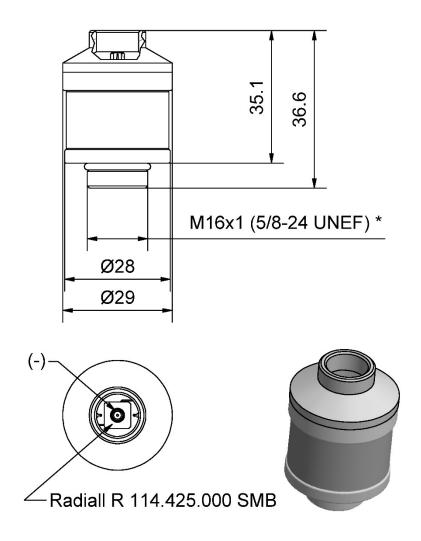
MEASUREMENT	0 % 100 % oxygen	
Output in Ambient Air:	9 to 13 mV	
Electrical Interface:	Mini HF (RADIALL R 114-425-000)	
Repeatability:	< 1% vol. O2 @ constant temperature and pressure	
Linearity error:	$0.1 \text{ to } 1.0 \text{ bar ppO}_2 < 3\% \text{ relative}$	
	0.1 to 2.5 bar ppO $_2$ < 5% relative (at ppO $_2$ > 1.0 bar after 1 h equilibration time)	
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. O ₂ response to: 5% CO ₂ balance N ₂	
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)	
Part No.:	OOD103-3V: 1002289 (REF 8010024 / UDT-24)	

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





Mechanical draft:



General tolerances ISO 2768-c *Intermediate thread: Metric / Unified Extra Fine

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Customized Design Specification:

- Integration of additional Zitex membrane in sensor gas diffusion way
- 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:

Тор	Bottom
	17.2.2.2.10 - 17.2.2.2.10 - 18.2.10 - 18.

Product Labeling

OOD103-3V: 1002289 (REF 8010024 / UDT-24)		
Label on Sensor (90x15)	Label on Blister- Card (63,5x46,6)	
WWW.divetechnology.com UDT-24 Oxygen Sensor UNCHARTED DIVING TECHNOLOGY S/N UDT123456	UDT UNCHARTED DIVING TECHNOLOGY Email: octagon@unchartereddiving.com www.divetechnology.com UDT-24 Oxygen Sensor 2016-01	

Customer Approval

Date:

Signature: