Product Specification Oxygen Sensor OOD103-1V



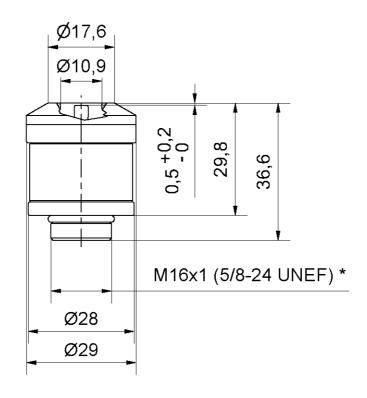


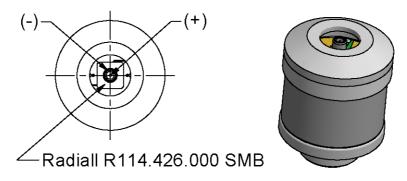
| Measurement Range: | 0 % 100 % oxygen |
|--|---|
| Output in Ambient Air: | 9 to 13 mV |
| Electrical Interface: | Mini HF (RADIALL R114.426.000) |
| Repeatability: | < 1% vol. O ₂ @ constant temperature and pressure |
| Linearity error: | 0.1 to 1.0 bar ppO ₂ < 3% relative |
| | 0.1 to 2.5 bar $ppO_2 < 5\%$ relative (at $ppO_2 > 1.0$ bar after 1 h equilibration time) |
| Response time: | < 5 sec. to 90% of final value |
| Zero Offset Voltage: | < 0.5% oxygen reading in 100% nitrogen @ 25 ℃ 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℃ |
| 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 ℃ and +50 ℃: 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℃ to +15℃ |
| 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.: | OOD103-1V: 1001581 (REF 8010007 / NaNS01) |
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All specifications are applicable at standard conditions: 1013 mbar, 25°C dry ambient air.



Mechanical draft:





General tolerances ISO 2768-c

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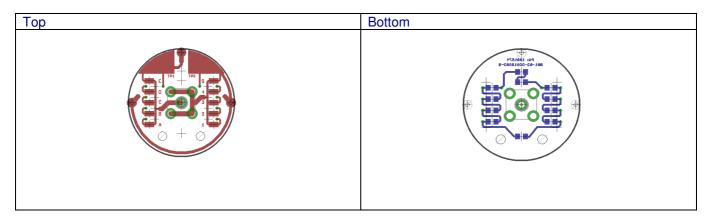


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Customized Design Specification:

- 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:



Product Labeling



Customer Approval

Date:

Signature: