

Product Specification

Oxygen Sensor

OOD103 / OOD103-1 / OOD103-1V / OOD103-2V / OOD103-OG / OOD103-ISC

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Measurement Range:	0-100 % oxygen
Output in ambient air:	9 to 13mV
Electrical Interface:	OOD103: 3pin (Molex 22-11-1031) OOD103-1: 3.5mm phone jack (Switchcraft type 41) OOD103-1V: Mini HF (RADIAL R114.426.000) OOD103-2V: Mini HF (RADIAL R114.186.000) OOD103-OG: 3pin (Molex 22-11-1031) OOD103-ISC: 3pin (Molex 22-11-1031)
Repeatability:	< 1 % vol. O ₂ @ constant temp. and pressure
Linearity error:	0.1 to 1.0 bar less than 3 % relative 0.1 to 2.5 bar less than 5 % relative
Response time:	< 5sec. 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 to 50°C
Temperature Compensation:	built-in NTC compensation
Effect of Temperature Compensation:	between 0 °C and +50 °C: 5 % relative error (steady state)
Operating Humidity:	0-99% RH non-condensing
Long Term Output Drift:	< 1% vol. oxygen per month typically < - 15 % relative over lifetime
Storage Temperature:	-20 to +50 °C
Recommended Storage:	+5 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 months shelf life)
Part No.:	OOD103: 1001570 (REF 8010000 / VST2200) OOD103: 1001570 (REF 8010001 / APD 5) OOD103: 1001570 (REF 8010006 / CR22D) OOD103: 1001570 (REF 8010008 / NaNM01) OOD103: 1001570 (REF 8010014 / K-22D) OOD103: 1001570 (REF 8010016 / H22) OOD103: 1001570 (REF 8010015 / UDT-22) OOD103: 1001570 (REF 8010018 / M3S) OOD103-1: 1001580 (REF 8010003 / VR1700) OOD103-1: 1001580 (REF 8010005 / VST1700) OOD103-1: 1001580 (REF 8010017 / VMS1700) OOD103-1V: 1001581 (REF 8010002 / APD 11) OOD103-1V: 1001581 (REF 8010007 / NaNS01) OOD103-1V: 1001581 (REF 8010022 / APD 16)

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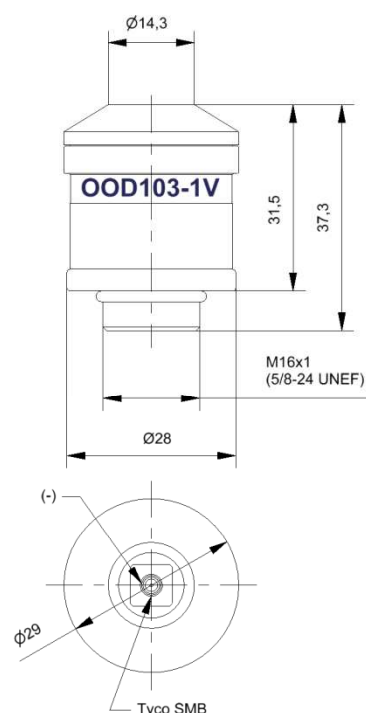
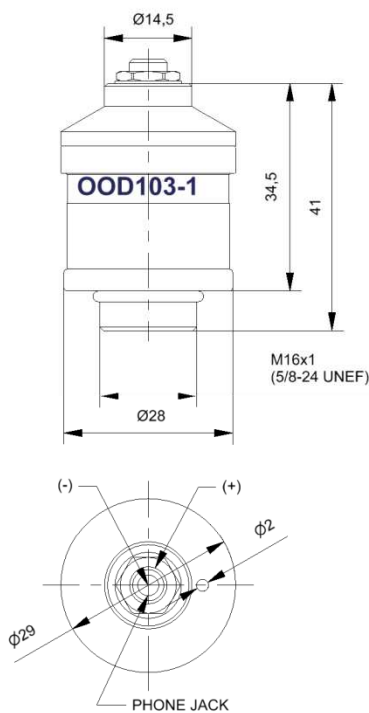
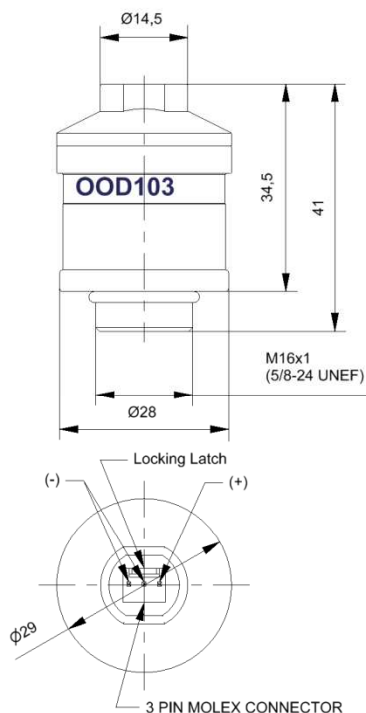
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OOD103-2V: 1001721 (REF 8010004 / JJ-CCR)

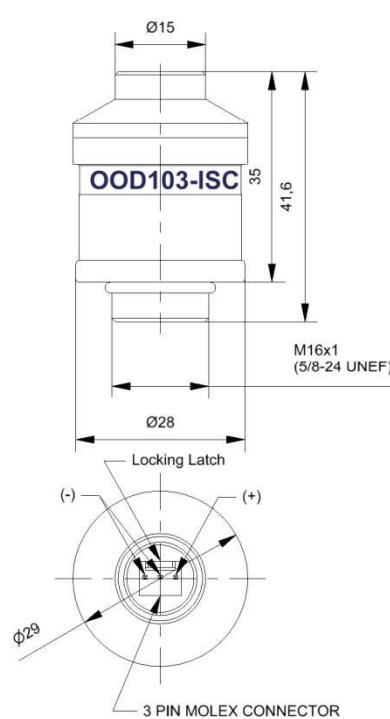
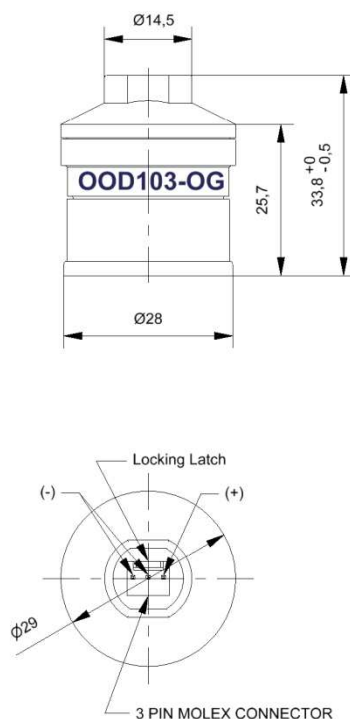
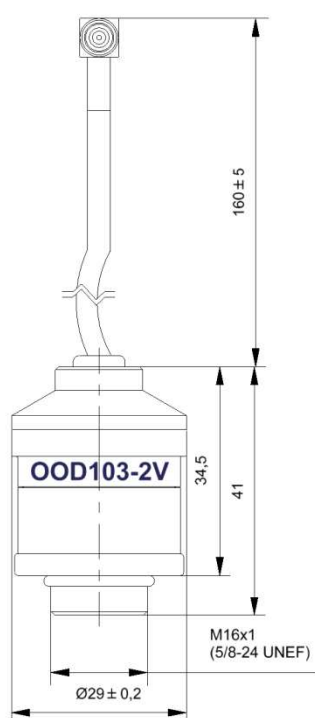
OOD103-OG: 1001930 (REF 8010010 / RBL-23D)

OOD103-ISC: 1002106 (REF 8010012 / SC-I22D)

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



All dimensions in mm



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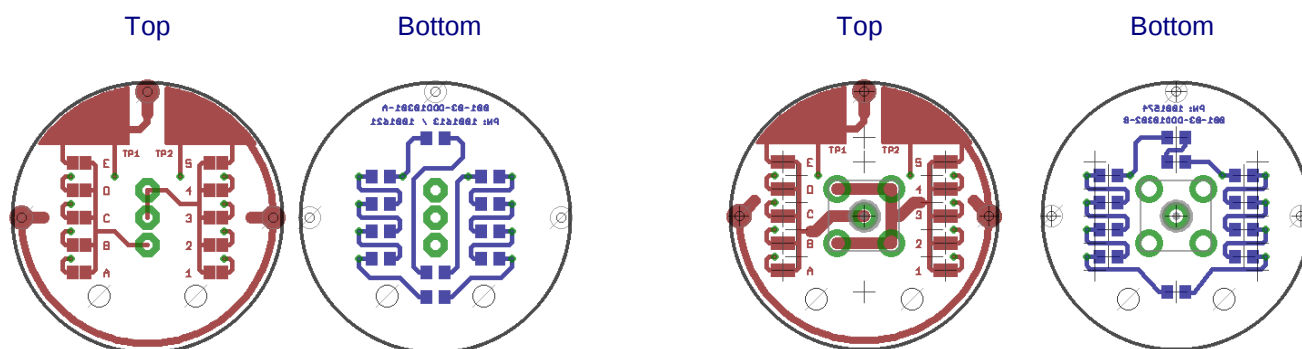
Customized Design Specification:

- Integration of additional Zitex membrane in sensor gas diffusion way
- 2mm hole drilled in sensor cap near to the connector at sensor type OOD103-D
- Conformal coating on the sensor PCB with PLASTIK 70
- 2 x 2mm holes drilled in the sensor PCB
- None information about EnviteC on PCB top side / bottom side only information for ordering process and traceability

PCB Layout:

Type: 8010000 / 8010001 / 8010003 / 8010004 / 8010005
/ 8010006 / 8010008 / 8010010 / 8010012 / 8010014
/ 8010015 / 8010016 / 8010017 / 8010018

8010002 / 8010007 / 8010022



Marking of product

Customized Label Specification is part of separate document.

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