

Oxygen Sensor OOD103 / OOD103-1 / OOD103-1V

Confidential!
Only for Vandagraph!

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)
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 - 0.03% rel. per % RH at 25°C
Influence of Humidity:	600 to 2500 mbar
Pressure Range	< 1% relative after a fall from 1m
Influence of Mechanical Shock:	
Operating Temperature:	0 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 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
Part No.:	OOD103: 1001570 (REF 8010000 / VST2200) OOD103: 1001570 (REF 8010001 / APD 5) OOD103-1: 1001580 (REF 8010003 / VR1700) OOD103-1V: 1001581 (REF 8010002 APD 11)

Use the advantages:

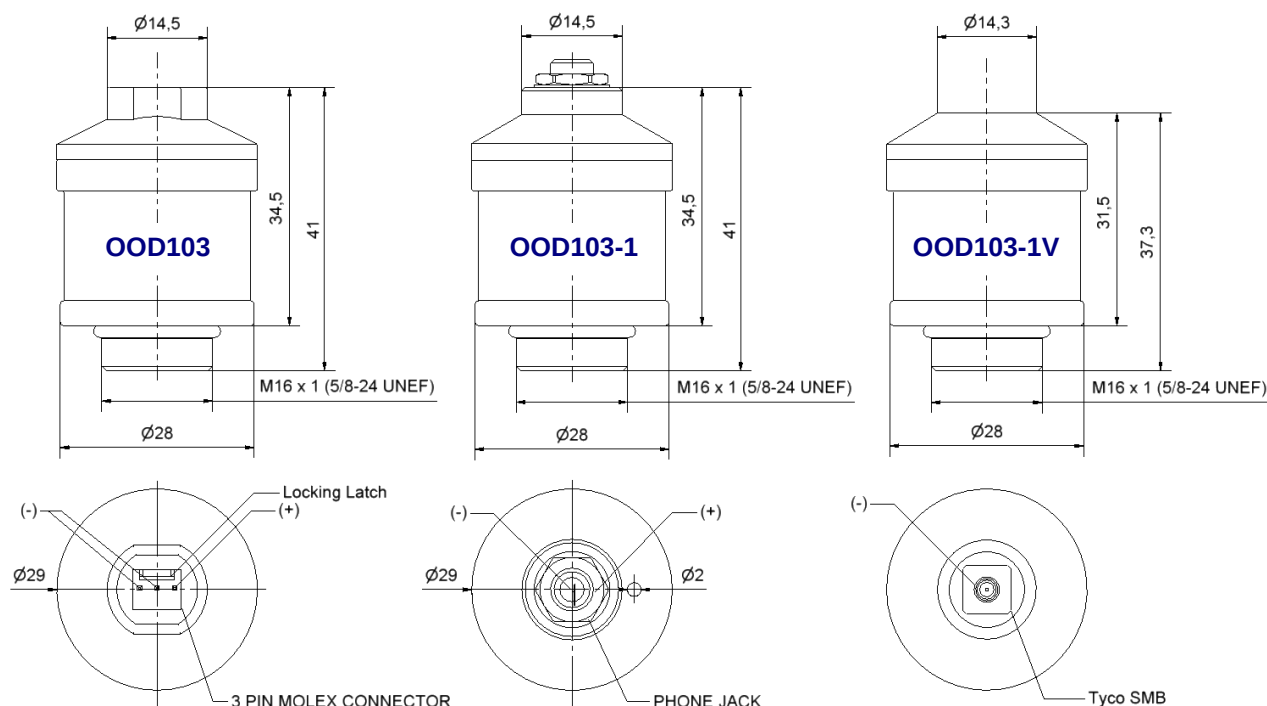
- Designed for scuba diving application
- Developed and manufactured according to EN ISO 9001
- Accurate and reliable response
- Excellent signal stability
- High product quality
- Short lead times
- Technical support

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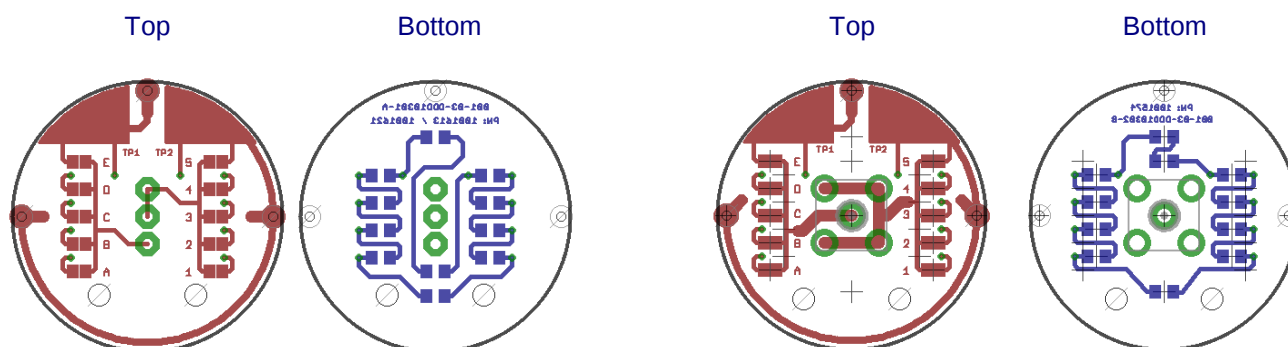
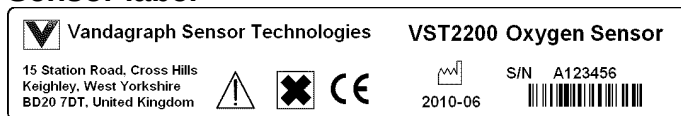
All specifications are applicable at standard conditions: 1013 mbar, 25°C dry ambient air



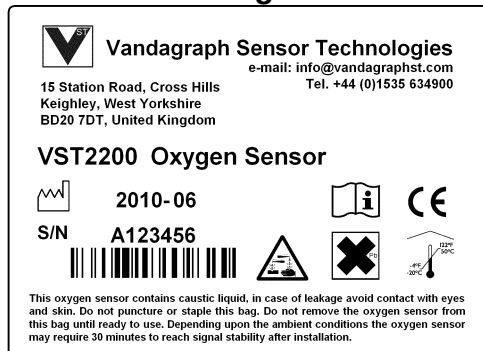
All dimensions in mm

Oxygen Sensor OOD103 / OOD103-1 / OOD103-1V**Confidential!****Only for Vandagraph!****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****8010002****Customized Label Specification:****Type 8010000 (OOD103)****Sensor label**

90x15

Blister-Card / bag label

63,5x46,6

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Type 8010001 (OOD103)

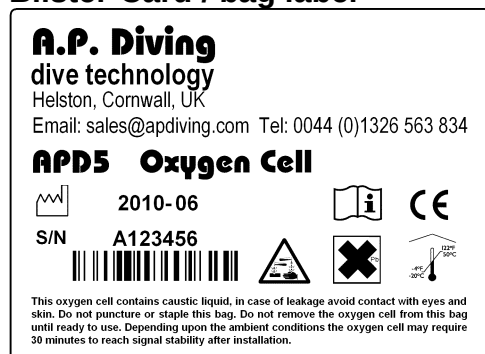
Sensor label



90x15

color: green Pantone 354 C, script in white on the customer block and symbols; black on the product info, arrays white with black frame, AP logo in black behind customer info to be discussed

Blister-Card / bag label



63,5x46,6

Type 8010002 (OOD103-1V)

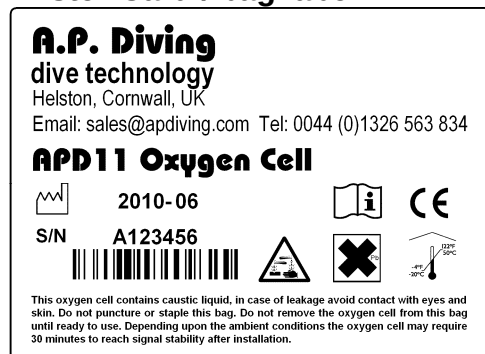
Sensor label



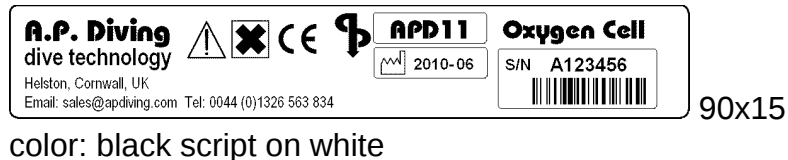
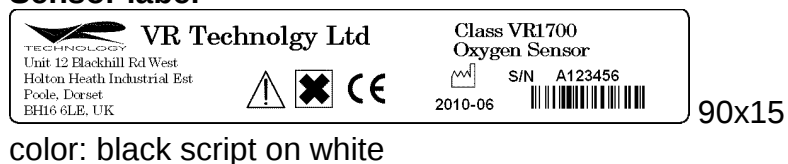
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Blister-Card / bag label



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Confidential!**Only for Vandagraph!****Type 8010002 [for samples only] (OOD103-1V)****Sensor label****Type 8010003 (OOD103-1)****Sensor label****Blister-Card / bag label**