

**Product Specification  
Oxygen Sensor  
OOD103-3V**

**ENVITEC**  
by Honeywell

**Confidential - For Vandagraph only!**

<b>Measurement Range:</b>	0 % ... 100 % oxygen
<b>Output in Ambient Air:</b>	9 to 13 mV
<b>Electrical Interface:</b>	Mini HF (RADIAL R 114-425-000)
<b>Repeatability:</b>	< 1% vol. O <sub>2</sub> @ constant temperature and pressure
<b>Linearity error:</b>	0.1 to 1.0 bar ppO <sub>2</sub> < 3% relative
	0.1 to 2.5 bar ppO <sub>2</sub> < 5% relative (at ppO <sub>2</sub> > 1.0 bar after 1 h equilibration time)
<b>Response time:</b>	< 5 sec. to 90% of final value
<b>Zero Offset Voltage:</b>	< 0.5% oxygen reading in 100% nitrogen @ 25°C after 36 seconds
<b>Cross Interference:</b>	< 0.5% vol. O <sub>2</sub> response to: 5% CO <sub>2</sub> balance N <sub>2</sub>
<b>Influence of Humidity:</b>	- 0.03% rel. per % RH at 25°C
<b>Pressure Range:</b>	600 to 2500 mbar
<b>Influence of Mechanical Shock:</b>	< 1% relative after a fall from 1m
<b>Operating Temperature:</b>	0°C to 50°C
<b>Temperature Compensation:</b>	Built-in NTC compensation
<b>Effect of Temperature Compensation (steady state):</b>	Between 0°C and +50°C: 5% relative error
<b>Operating Humidity:</b>	0 - 99% RH non-condensing
<b>Long Term Output Drift:</b>	< 1% vol. oxygen per month
	Typically < -15% relative over lifetime
<b>Storage Temperature:</b>	-20°C to +50°C
<b>Recommended Storage:</b>	+5°C to +15°C
<b>Recommended Load:</b>	10 kOhms
<b>Warm-Up Time:</b>	< 30 minutes, after replacement of sensor
<b>Nominal Sensor Lifetime:</b>	500,000% vol oxygen hours
<b>Weight:</b>	Approximately 28 grams
<b>Warranty Period:</b>	15 months (including 3-month shelf life)
<b>Part No.:</b>	OOD103-3V: 1002289 (REF 8010024 / UDT-24)

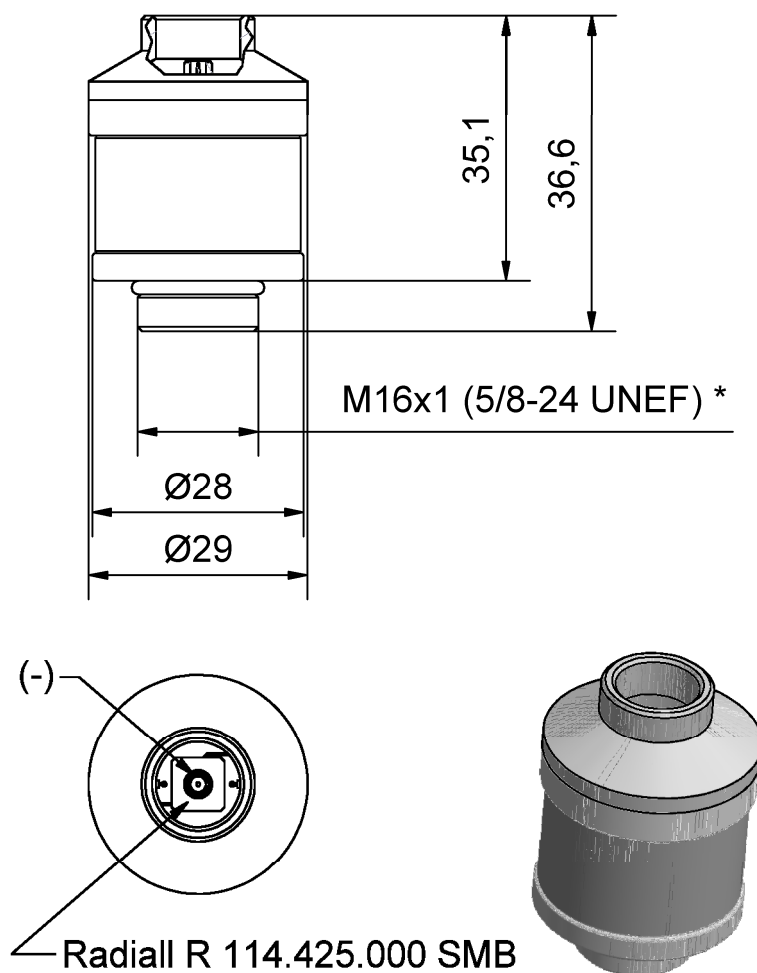
**All specifications are applicable at standard conditions: 1013 mbar, 25°C dry ambient air.**

**Product Specification**  
**Oxygen Sensor**  
**OOD103-3V**

**ENVITEC**  
by Honeywell

**Confidential - For Vandagraph only!**

Mechanical draft:



General tolerances ISO 2768-c

**Product Specification**  
**Oxygen Sensor**  
**OOD103-3V**

**ENVITEC**  
 by Honeywell

**Confidential - For Vandagraph only!**

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:

Top	Bottom
