

Product Specification of:

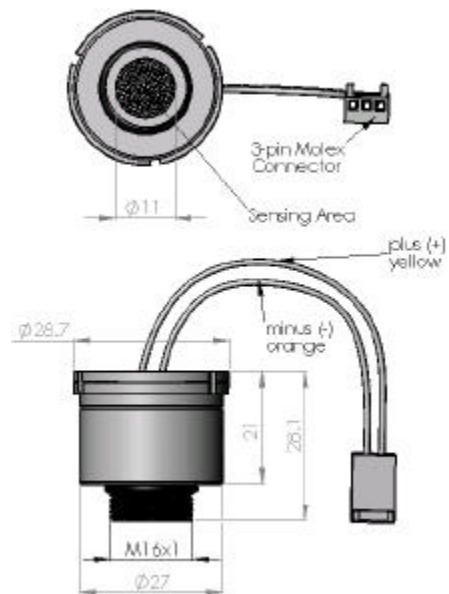
Industrial O₂-Sensor**Type: I - 12**

Part. No.: 48 00 28

Key Features: specially designed for use in highly electro-magnetically charged environments, proved according to EN ISO 12598.

All characteristics are based on conditions at 25°C, 50 % RH and 1013 hPa

Operating Principle:	galvanic fuel cell
Electrical Connector:	3-pin Molex, gold plated contacts
Instrument Ground:	soldering lug
Measurement Range:	0 - 100 Vol.%
Nominal Sensor Life:	> 1, 500, 000 Vol.% h O ₂
Expected Operating Life:	> 3 years @ ambient air
Output Signal:	13 - 16 mV @ dry ambient air
Response Time t ₉₀ :	< 10 s @ flow-rates of > 1 l / min.
Drift:	< 1% volume O ₂ / month @ air
Operating Temperature:	10 - 55°C
Pressure Range:	600 - 1750 hPa
Linearity Error:	< 1% @ 100% O ₂ applied for 5 min
Zero Offset Voltage:	< 200 µV in 100% N ₂ , applied for 5 min
Repeatability:	± 1% full scale
Influence of Humidity:	-0.03% rel. O ₂ reading per % R.H.
Recommended Load Resistor:	> 10 kOhm
Temperature Compensation:	NTC
Interferences:	according to DIN EN 12598 and ISO 7767



Tolerance: ± 0.15 mm

Storage Conditions

Temperature Range:	- 20 - 50°C maximum 5 - 30°C recommended
Ambient Pressure:	600 - 1750 hPa
Humidity:	up to 100 % RH
Shelf Life:	less than 6 months recommended
Weight:	approximately 37g
Material in contact with media:	PA, PPS, PTFE, stainless steel, aluminium
Warranty Period:	12 months
Housing Colour:	metal

This data sheet is subject to change without prior notice!

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