

Product Specification of:

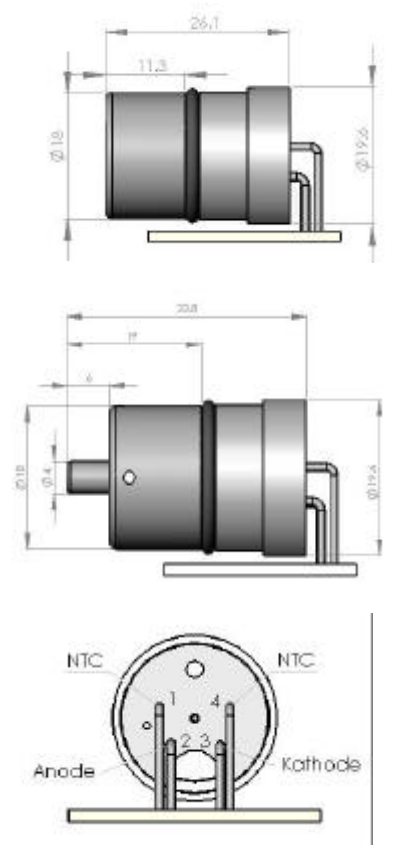
Industrial O₂-Sensor**Type: I - 14**

Part. No.: 48 00 30

Key Features: Sensor contains acid electrolyte to withstand high CO₂ concentrations, shows high resistivity to acid gases, small dimensions and light weight

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

Operating Principle:	galvanic fuel cell
Electrical Connector:	4-pin
Measurement Range:	0.5 to 100 Vol.%
Nominal Sensor Life:	> 1, 200, 000 Vol.% h
Expected Operating Life:	6 years @ ambient air
Output Signal:	150 to 650 nA @ dry ambient air
Response Time t_{90} :	< 10 s
Linearity Error:	0 - 2 % oxygen: ± 0.1 % absolute 2.1 - 100 % oxygen: ± 0.5 % relative
Drift:	< 3 % per month
Operating Temperature:	0 - 50°C
Pressure Range:	750 - 1250 hPa
Influence of Humidity:	-0.03% rel. O ₂ reading / % RH
Recommended Load Resistor:	refer to the electrical interface below
Warm-Up Time:	< 30 s
Temperature Compensation:	NTC
Interferences	< 20 ppm O ₂ response to: 100 Vol.% CO 100 Vol.% CO ₂ 3,000 ppm NO _x , balance N ₂ 1,000 ppm H ₂ , balance N ₂ 100 Vol.% C ₃ H ₈ 2,000 ppm H ₂ S, balance N ₂ 2,000 ppm SO ₂ , balance N ₂ 1,000 ppm Benzene, balance N ₂

Tolerance: ± 0.15 mm**Storage Conditions**

Temperature Range:	- 15 - 60°C maximum 5 - 40°C recommended
Ambient Pressure:	600 - 1750 hPa
Humidity:	up to 100 % RH
Material in Contact with Media:	PVC, Stainless Steel, PTFE
Shelf Life:	less than 6 months recommended
Weight:	approximately 15 g
Warranty Period:	12 months
Housing Colour:	white

This data sheet is subject to change without prior notice!

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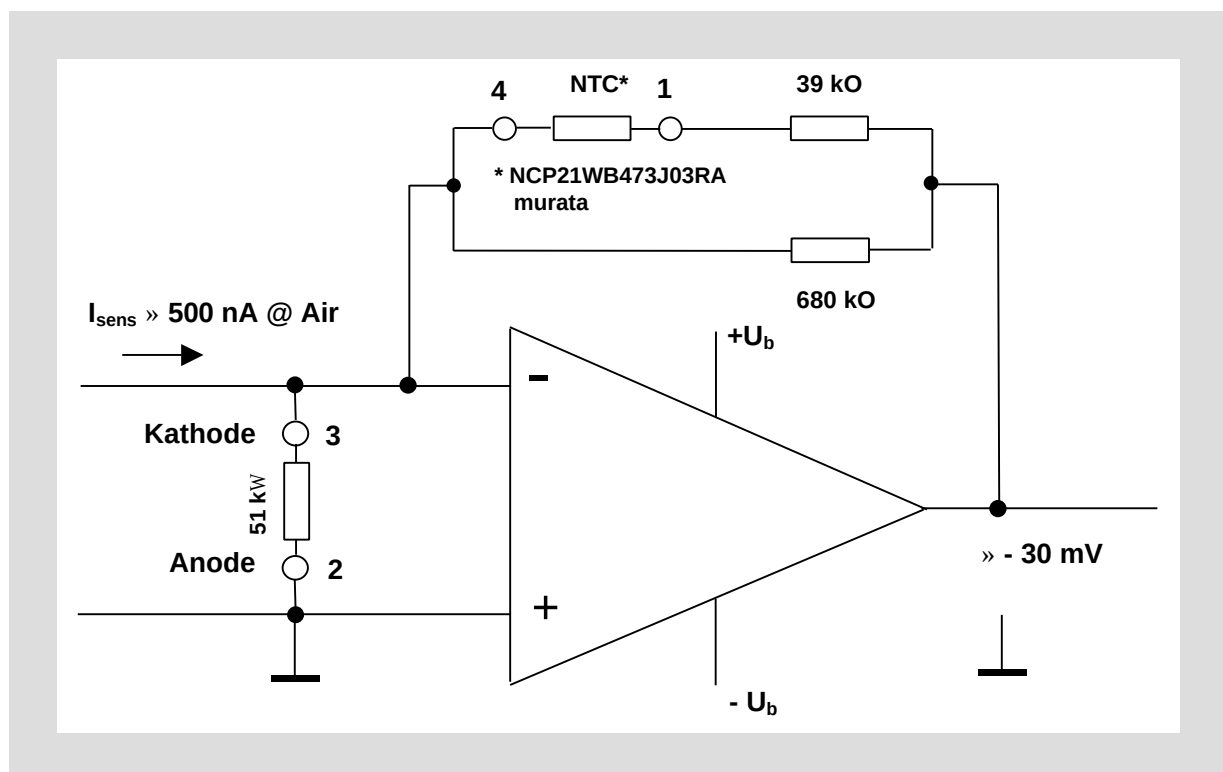
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Industrial O₂-Sensor

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Electrical Interface



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