

# Micro-Sensor-Technologie

## Intertrade Handels GmbH

### SENSORS

Oxygen - O<sub>2</sub> - 2E - 100%

**Features:** very long life time  
high reliability  
built-in transmitter



#### Technical Data

Sensor type	Oxygen O <sub>2</sub> -2E-100%
Measuring principle	amperometric 2-electrode-sensor
Measuring range	0-100% vol. O <sub>2</sub>
Sensitivity range	150-320 mV/20.8%vol.O <sub>2</sub> at 20°C
Long term sensitivity drift	<15% per 3 years, <30% per 10 years
Deviation from linearity	<1% vol. O <sub>2</sub>
Zero voltage at 20°C	<0.3% vol. O <sub>2</sub>
Response time t <sub>90</sub> at 20°C	<20 seconds
Effect of temperature on sensitivity	<5% inside of range -20°C to +45°C, built-in transmitter with temperature compensation
Pressure dependence	linear
Operating conditions	-35°C to +50°C; 0 to 98% r.H. (non-condensed)
Best storage conditions	+5°C to +20°C; 40 to 60% r.H.
Sensor life expectancy	>10 years at 20.8% vol.O <sub>2</sub> , at 20°C
Warranty	24 months
Dimensions	height 16.5 mm, diameter 22.5 mm
Sensor transmitter output	two wires: "+mV"-red, "ground"-black
Input impedance of user's electronic circuit	>5 MΩ, >5 MΩ by switch off of el.circuit
None cross sensitivity at 20°C by	Carbon monoxide <10%vol. Carbon dioxide <30%vol. Hydrogen <30%vol. Mainly VOCs ~ %-range