

# Micro-Sensor-Technology

## SENSORS

## Intertrade Handels GmbH

### Oxygen-O<sub>2</sub>-2E-30%

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



### Technical Data

Sensor type	Oxygen-O <sub>2</sub> -2E-30%
Measuring principle	amperometric 2-electrode-sensor
Measuring range	0-30% vol. O <sub>2</sub>
Sensitivity range	100-300 mV/20.8%vol.O <sub>2</sub>
Long term sensitivity drift	< 10% per 3 years, <20% per 5 years
Deviation from linearity	<0.3% vol. O <sub>2</sub> inside of range 0-30% 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 +50°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	>5 years at 20.8% vol.O <sub>2</sub> , at 20°C
Warranty	18 months
Dimensions	CTL-4 housing (4-Series) height 18 mm, diameter 20 mm
Sensor transmitter output	two pins, Ø 1.6 mm
Input impedance of user's Electronic circuit	> 100 MΩ, □30 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