

Micro-Sensor-Technologie

Intertrade Handels GmbH

SENSORS

Oxygen - O₂ - 2E - 30%

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



Technical Data

Sensor type	Oxygen-O ₂ -2E-30%
Measuring principle	amperometric 2-electrode-sensor
Measuring range	0-30% vol. O ₂
Sensitivity range	150-500 mV/20.8%vol.O ₂
Long term sensitivity drift	<15% per 3 years, <30% per 10 years
Deviation from linearity	<0.3% vol. O ₂ inside of range 0-30% vol. O ₂
Zero voltage at 20°C	<0.3% vol. O ₂
Response time t ₉₀ at 20°C	<10 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	>10 years at 20.8% vol.O ₂ , 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 circuit	electronic >2 MΩ, >2 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