

Micro-Sensor-Technologie

SENSORS

Intertrade Handels GmbH

Oxygen-O2-2E-30%-micro

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



Technical Data

Sensor type	Oxygen O ₂ -2E-30%-micro
Measuring principle	amperometric 2-electrode-sensor
Measuring range	0-30% vol. O ₂
Sensitivity range	90-250 mV/20.8%vol.O ₂ at 20°C
Long term sensitivity drift	<8% per 12 months, <20% per 3 years
Deviation from linearity	<1%
Zero voltage at 20°C	<4mV
Response time t ₉₀ 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 +45°C; 0 to 98% r.H. (non-condensed)
Best storage conditions	+5°C to +20°C; 40 to 60% r.H.
Sensor life expectancy	>3 years at 20.8% vol.O ₂ , at 20°C
Warranty	12 months
Dimensions	height 11.7 mm, diameter 11.5 mm
Sensor transmitter output	two wires: "+mV"-red, "ground"-black
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