

Datasheet Oxygen Analyzer



Description In-system OXYGEN ALALYZER is a new generation of compact and robust Portable Oxygen Analyzer special built for use in demanding industrial and laboratory processes Advantage • Very fast measurement response • Full measuring range available from 100% oxygen to >10 ⁻²⁹ bars O2 • No cross-sensitivity to N2, Ar, He, CO2, H2O, SO2 and HCI Application • Control of critical oxygen atmospheres where low oxygen partial pressures are required • Control of the combustion process in lean-burn applications • Testing the purity of gases as N2, Ar, He and CO2 • Measuring of oxygen within the chemical, metallurgical and medical industry, research and development	
Dimensions, weight	Hardware Height: 105 mm, Width: 160 mm, Length: 195 mm – weight: 1,7 kg
Cabinet	Metal cabinet. Protection class: IP 44, colour: RAL 7031 (Dark grey)
Voltage	110-230 VAC supply via separate adapter with EU plug
Temperature	Sensor temperature: Approx. 700°C, see actually Sensor Calibrations Certificate Gas inlet temperature: 10-50°C Ambient temperature: 10-50°C
Fittings for measure gas connection	Gas in and gas out: 1/8 NPT, female
Data for sensor	
Oxygen sensor	Potentiometric solid-state sensor with Zirconia electrolyte
Range of measuring	Full range available from 100% to >10 ⁻²⁹ bars of O_2
Warm up time	Approx. 10 min Full stability: Approx. 30 min
Measure gas flow	50 ml/min to 1000 ml/min - Incorporated gas pump and Mass Flow Controller
Reference gas	Stationary atmospheric air (20,9 % O ₂)
Sensor output signal	The sensor generate an EMF signal which is logarithmic and conversely proportional to the oxygen partial pressure in the measured gas after Nernst's equation
Measurement accuracy	< ±1 % of measured value
Live expectancy	Normally: > 20.000 hours
Data for flow system	
Measurement gas pump	Long life Micro Diaphragm Pump
Flowmeter	Mass Flow Controller with flow regulation, scale: 50-1200 ml/min [Air]
Data for display Display Programmable via front keys	
Data for analogue output	
Output/alarms	Analogue output: 0/4-20 mA, Change-over relays, potential free, scalable Programmable via front keys Product information
Declaration of conformity	This product complies with the current EU Directives
Warranty	General two years, pump only one year