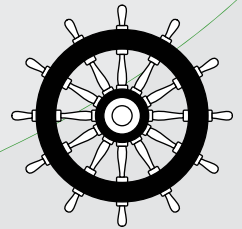


G363x O₂ Analyzer Kit

For OEM Customers



Customizable for many applications



Perfecting Sensible Technology



The G3630 Oxygen Analyzer Kit

The G3630 Oxygen Analyzer Kit is designed to measure the content of oxygen in nitrogen or flue gas based inert gas. It measures oxygen concentrations in the range of 0.0 to 21.0% with an accuracy of +/- 0.5%.

The kit comprises an analyzer, a sensor including housing, and a sensor cable (0.8, 1.5, or 3.0 m). The kit is perfect for OEM customers integrating the analyzer kit into their own systems.

The kit can be delivered with the G36a or the G36p Oxygen Analyzer.

The G36a Oxygen Analyzer is a stand alone box (aluminum casing IP67) and is suitable for engine room installation, while the G36p Oxygen Analyzer is built for panel mounting.

The G36 analyzer family provides interface via touch

screen, galvanically separated analog signal, trend graph display, data logging, and optional pressure compensation.

Both analyzers have CE and MED markings as well as DNV, Bureau Veritas, and Lloyd's Register type approvals.



The oxygen analyzers both use a heated zirconia sensor and can be delivered with either a SEN1 plug-in sensor type or SEN9 which is a screw-in type.



The G3631 Ambient Oxygen Analyzer

The G3631 measures the content of oxygen in ambient air with concentrations up to 21.0%. It consists of a G36p Oxygen Analyzer and a SEN9 sensor.

Specifications - G36a/p Oxygen Analyzers

	G36p	G36a
		
Certificates & Approvals	MED by DNV – BV, DNV, and Lloyd’s Register Type Approval — CE	
Sensor	Heated Zirconia Sensor – both SEN1 plug-in type and SEN9 screw-in type	
Measurement Range	0.0 ... 21.0% O ₂	
Repeatability	+/- 0.1% of the measurement range	
Accuracy	+/- 0.5% of the measurement range	
Response Time	90% of F.S. in less than 45 sec.	
Power Supply	24 VDC	100...230 VAC / 50...60 Hz
Output Signal	2 × 4...20 mA – range selectable, default: A-out1: 0.0...25.0 % O ₂ / A-out2 not in use	
Max. Load	600 Ω / 24 VDC	
Alarm Relays	4 relays used for different functions, volt free, 24 V AC/DC, 5 A	
Interface	Touch screen 71 x 39 mm with trend graph display	
Ambient Temperature	0°C to +70°C	-15°C to +55°C
Dimensions	Panel cut: 154 × 73 mm (W×H) Front: 178 × 95 mm (W×H) Depth: 71 mm + cables	170 × 200 × 80 mm (H×W×D) Cable glands at bottom
Enclosure	IP55 if panel mounted	IP67
Datalog	History and alarm logs on SD cards	
Pressure Compensation	Optional	

Applications

		Application Description	Measurement Principle
Oxygen content in inert gas after	Inert gas generators (with dedicated burner)	Void spaces in oil tankers, product carriers, chemical tankers, and other storage vessels shall be filled by inert gas with controlled oxygen content for explosion protection. The oxygen content in the inert gas shall be documented. Vetting inspectors and other inspectors are very keen on seeing the oxygen analyzer in function with a certified test gas.	The surplus pressure in the inert gas system is used to supply a sample to the oxygen analyzer. The oxygen analyzer requires a sampling system that controls pressure variations and controls the supply of sample gases and calibration gases.
	Inert gas systems (based on boiler flue gas)		
	Nitrogen generators		
Oxygen content in flue gas after	Boilers	The efficiency of combustion can be optimized when knowing the oxygen content of the flue gas. This can yield significant fuel savings. Furthermore, a controlled combustion process will lead to a cleaner combustion and less maintenance.	In situ and direct monitoring with a stack probe.
	Generators		
	Biomass heating plants		
Oxygen content in ambient air	Detection of leakage	The content of oxygen in the ambient air in for example nitrogen generator rooms or server rooms with hypoxic air must be controlled for personnel protection.	Direct measurement in the ambient air.
	Protection of personnel		