GEN'AIR Oxygen pump-gauge



The GEN'AIR is used to generate and measure various oxygen atmospheres. It operates according to the zirconia ionic conduction principle.

The GEN'AIR is made in two parts:

- The pump: using a low gas flow, between 1 and 131/h, it raises or decreases the concentration of oxygen in the gas that passes inside its zirconia tube.
- The gauge: it measures the partial pressure produced by the pump. Thanks to MicroPoas¹ it gives a very accurate, very fast measurement.

¹ Patented design (University of Grenoble – France)

- Generation and analysis of atmospheres with controlled oxygen rates.
- Use of only small quantity of carrying gas.
- Limited cost owing to the use of a single gas.
- Large dynamic scale.
- Measurement completely independent from the outside ambient conditions.
- Almost maintenance-free and low servicing requirements.
- Extremely high reliability and high performance.



TECHNICAL SPECIFICATION

Measurement principle	MicroPoas* (Document ref.S101GB),	
	Zirconia sensor with built-in metallic reference	
Range	10 ⁻³⁵ to 0.25 atm	
	Ambient pressure adjustment	
Accuracy	3 % relative	
Gas flow rate	from 1 to 13 l/h	
Output signals	 0-20 mA or 4-20 mA, linear signal, with galvanic insulation RS 232 port 	
Alarms	2 thresholds alarms and 1 general fault alarm.	
Power supply	230 V or 110 V - 50/60 Hz	
Dimensions and Weight	430 x 170 x 430 mm (wxhxd) - 15 kg	

EXAMPLES OF PERFORMANCES²

Voltage applied to the pump (mV)	Oxygen partial pressure (atm)
200	3.70E-02
400	2.30E-02
625	5.40E-03
900	1.10E-08
-1265	1.40E-01

 2 at 1.6 l/h and 800 $^\circ {\it C}$ for a gas containing 5% of oxygen in nitrogen

OPTION

Total pressure adjustment

Specifications are subject to change - for improvement purposes - without notice

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