Paramagnetic Oxygen Analyzer

v.03 06/25

PROA MP-R

Main characteristics

- Physical sensor : unlimited life time
- Very stable
- Fast response time

Main applications

- Oxygen purity monitoring
- Oxygen generators
- Medical gas
- Heat treatment atmospheres
- Flue gas monitoring



The oxygen analyzer PROA MP – R is based on the very well known and reliable paramagnetic sensor technology (magneto-dynamic type) and on a complete new microprocessor electronics.
The touch sensitive display allows the user to see very quickly all parameters : O_2 content, analog output range, temperature control, alarms status, and to get access to the menus.
The instrument integrates some data storing facilities (350 data memory as standard and memory extension with SRAM card as option).
It gives a complete traceability on the events that occur on the analyzer: alarms thresholds, error messages, calibration, configuration, etc. All these data are available on parallel output (for printer connection) and on digital interface RS232.
The automatic calibration function is very easy to use and allows : calibration values setting, calibration sequence performed manually, at set time or at regular intervals; calibration on one or two points; safety procedure in case of error on the gas used for calibration.

Technical Characteristics

Measurement principle	Paramagnetic sensor, magneto-dynamic type
Measurement range	0 – 100%
Analog output range	User selectable between 0 and 100%
Accuracy	± 0.5% vol. abs.
Repeatability	± 0.02 vol. abs.
Linearity	Better than ± 0.5%
Zero drift	< 0.1% vol. abs. / week
Response time	T_{95} < 10sec from 0 to 100% O_2
Sensor	Temperature monitored at +45°C
Inlet pressure	1 bar max.
Recommended flow	0.5 L/min, internal regulator
Output signals	4 – 20 mA, 0 -1 V, RS232 and parallel port
Power supply	115/230 VAC – 50/60 Hz
Operating temperature	Between +5 and +40°C
Dimensions	483 * 133 * 400 mm
Weight	10 kg

Technical specifications may change without previous warning

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Codification

Device	
PROA	ARCMP3

Integrated options	
No options	0
Pressure compensated	1

Voltage	
230 VAC	0
110 VAC	1

Analyzer type	
Sensor integrated in Rack instrument	-
Analyzer with remote sensor	SC
Analyzer with remote sensor for Glove box	GB
Electronic only : Rack without sensor	RD
Remote sensor only	RS

Separated options		
Power interface box	Alarm relay, management of automatic calibration…	ARC00578+

Spare parts		

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