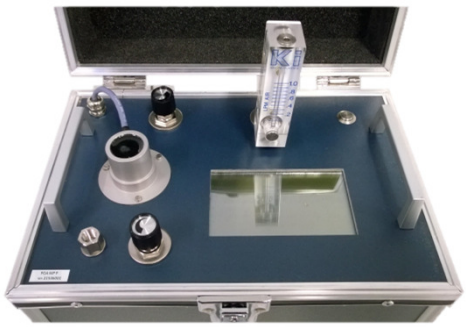
Percent Oxygen Analyzer

POA MP



Rack 19'' version



Portable version

Main characteristics

- Electrochemical cell replaceable
- Maintenance free
- Specific with absolute zero and linear output
- Unaffected by flow rate, hydrocarbons
- Air calibration possible
- Sensor insulation valves and flow setting valve

Main applications

- Gas blending monitoring (N_2, air, …)
- Inertages
- Heat treatment atmospheres
- Combustion monitoring

The oxygen analyzer POA MP integrates a maintenance free sealed electrochemical sensor and a complete new microprocessor electronics.

The touch sensitive display allows the user to see very quickly all parameters: ppm O2 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 threshold, 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 specifications may change without previous warning

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Technical specification

	Rack 19'' version	Portable version
Measurement principle	Electrochemical sensor	
Measurement range	0 – 100%	
Analogue output range	User selectable between 0 and 100%	
Accuracy*	± 1% of selected full scale	
Linearity*	± 0.5%	
Zero drift*	< 0.1% signal / month	
Response time	T_{95} < 20sec.	
Sensor	Temperature monitored	
Inlet pressure	1 bar max.	
Recommended flow	0.5 L/min	
Output signals	4 – 20 mA, 0 – 1 V, RS232, parallel	
Operation temperature	Between 0 and 50°C	
Sample specifications	Cleaned and dried gas, 0 < RH < 95%	
Gas connexion	1/8'' NPT female	
Alarms	2 alarms : adjustable threshold, low or high level Alarm analyzer fault Alarm flow fault (option) 5V TTL output to be relayed in power via the interfacing box	
Power supply	115/230 VAC – 50/60 Hz	Integrated battery (8h of operating)
Size (W * H * D)	483 * 133 * 400 mm	260 * 190 * 305 mm
Weight	10 kg	5 kg

* At constant pressure and temperature

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Codification

Device	
POA	ARCMP2

Integrated options	
No options	0
Special cell for O_2 measurement in CO_2	2
Sample cell equipped with cooler for O_2	3

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
Portable analyzer	P
Electronic only : Rack without sensor	RD
Remote sensor only	RS

Separate options		
Power interface box	Alarm relay, management of automatic calibration…	ARC00578+
Internal membrane pump	Only for portable instruments	OPTPOMPE

Spare parts		
O_2 % sensor	Electrochemical cell	ARCB310+
O_2 % sensor	Electrochemical cell, for application with CO_2	ARCA5C+

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