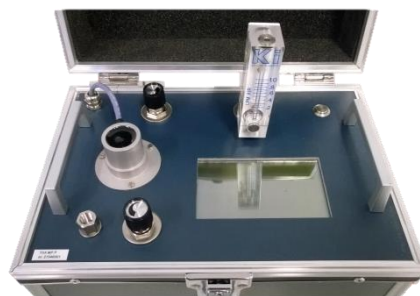


Low Contents Oxygen Analyzer

TOA 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

Main applications

- Gas purity monitoring (N₂, AR, H₂, CO₂, He, ...)
- Inertages
- Heat treatment atmospheres
- Gloves box atmospheres
- VCM purity
- Electronic applications (lamp and semi-conductors)

The oxygen analyzer TOA 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 Characteristics

	Version Rack 19"	Version portable
Measurement principle	Electrochemical sensor	
Measurement range	0 – 10000ppm, automatic display	
Accuracy*	± 0.05% absolute vol.	
Repeatability*	± 0.05% absolute vol.	
Display resolution	3 levels of display resolution : 1. 0 – 999.9 ppm (1 decimal) 2. 1000 – 4999 ppm (0 decimal) 3. 0.5 – 24.9% (1 decimal) If O ₂ > 24.9%, blinking : out of measurement range	
Linearity*	Better than ± 0.5% vol.	
Zero drift*	< 0.1% absolute vol. / week	
Response time	T ₉₅ < 30sec	
Sensor	Temperature monitored at +40°C	
Operating temperature	From 0 to +50°C	
Inlet pressure	From 0.1 to 1.5 relative bar	
Flow rate	Flowmeter with valve 0 – 1 L/min, recommended : 0.5 L/min	
Output signals	4 – 20 mA, 0 -10 V, RS232, parallel	
Sampling	The gas must be clean and dry	
Gas connections	Fittings : 1/8" NPT female	
Alarms	2 alarms with an adjustable threshold, settable as high or low alarm Analyzer default alarm Flow rate default alarm (with optional external flow rate detector) TTL 5V output to pass by the interface box	
Power supply	230 VAC – 50/60 Hz	Rechargeable battery
Dimensions (L * H * P)	483 * 133 * 400 mm	310 * 200 * 210 mm
Weight	10 kg	10 kg

* At constant pressure and temperature

Codification

Device		
TOA	ARCMP1	
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 ppm sensor	Electrochemical cell	ARCB210+
O ₂ ppm sensor	Electrochemical cell, for application with CO ₂	ARCA310+