Oxygen Analyzer

v.03 06/16

Main characteristics

- Gaseous diffusion zirconium oxide cell with no reference gas
- Maintenance free
- Expected life time : 5 years
- Auto diagnostic function
- Low cost
- No influence of pressure

ZOA 100



The oxygen analyzer model ZOA 100 uses a gaseous diffusion micro zirconium oxide cell.

This technique allows a continuous or intermittent use with a reduced maintenance.

The several versions of ZOA 100 are designed to fit the most severe applications.

The unit is also designed to be used as oxygen detector.

The analyzer is available in different standard versions :

- · Panel mounting control unit with remote sensor
- Control unit in polycarbonate wall mounting box
 with internal or remote sensor
- Control unit and sensor in painted steel wall
 mounting box with built-in gas sampling system
- Control unit and sensor in portable wallet with pressure regulator and pump

Technical characteristics

Measurement principle	Zirconium oxide sensor with gaseous diffusion		
Accuracy	Depending on version : Low range : ± 0.05% vol. High range : better than ± 0.2% vol.		
Response time	T90 = 20 s		
Sensor operating temperature	From -10 to +50°C		
Sensor operating pressure	No influence of pressure (0 – 3 bars)		
Display	LED		
Output signal	4 – 20 mA and 2 alarms		
Power supply	115/230 VAC – 50/60Hz, 24 VDC or VAC Rechargeable battery for portable unit		
Dimensions (L * H * P)	Housing : 178 * 95 * 74 mm Sensor : 140 * 64 * 58 mm		
Weight	4 kg		



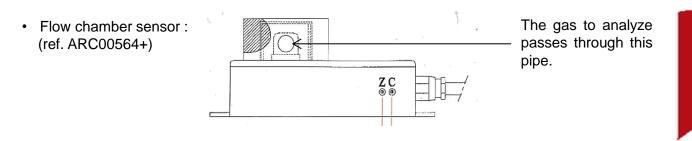
Technical specifications may change without previous warning

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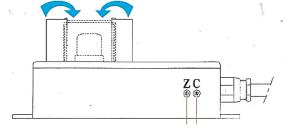
Main applications

- Control of pure gas generators (N₂, O₂, Ar)
- Safety and health, lack or excess oxygen
- Control of atmospheres in glove boxes, gas blending

Difference between the 2 sensor types



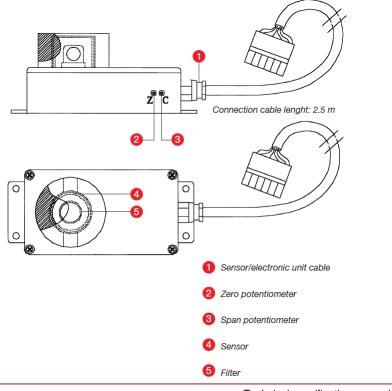
 Diffusion sensor : (ref. ARC00541+)



The gas to analyze is picked up by diffusion through a metal gate.

4.032.01 v.03 06/16

Connections





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Industrial Analytical System

v.03 06/16

4.032.01

ZOA 100 codification

Dev	vice						
ZOA 100		ARCZOA100					
(Control unit mounting	g		_			
Panel E							
Wall mounting in polycarbonate housing M							
Wall mounting in metal painted housing (provide battery to S avoid power loss)						J	
Portable P							
Sensor mounting					_		
Remote			D				
Integrated	Only for M, S or P type						
Sensor type						_	
Flow chamber					С		
Diffusion screen				Ν			
Without sensor				Е			
Release							
V450CCS : provide ranges 0-1% / 0-2.5% / 0-5% / 0-25% / 0-50%						1	
V495 : provide range 0-95%					2		
V4 : old version, only to replace V4 instruments						3	
Voltage							
230 VAC						-	
110 VAC						А	
12/24 VDC ou VAC						В	

Spare parts					
V450CCS, flow chamber sensor	ARC00564+				
V450CCS, diffusion screen sensor	ARC00541+				
V4, flow chamber sensor (only to replace V4 instruments)	ARC00531+				
V4, diffusion screen sensor (only to replace V4 instruments)	ARC00532+				
V495, flow chamber sensor	ARC00533+				



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