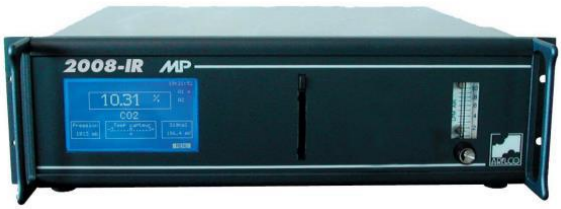
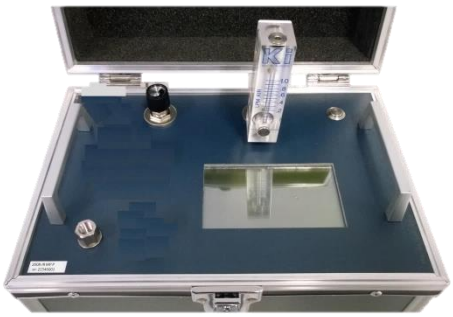
CO_2, CO or CH_4 Analyzer

2008-IR MP



Version Rack 19”



Version portable

Main characteristics

- Non dispersive Infra red absorption gas detector
- Non consumable part
- Short response time
- Non cross sensitivity
- Interesting cost

Main applications

- Laboratories
- Combustion efficiency industries (boiler, incinerator, furnace)
- atmosphere monitoring industries (heat treatment, greenhouse, fermentation)
- Emission industries (car industry,…)

The 2008-IR MP model is a compact and reliable instrument for specific measurement of CO_2 or CO or CH_4 in gas blending.
The instrument is based on non dispersion Infra red method (NDIR).

The touch sensitive display allows the user to see very quickly all parameters : gas contents, analogue output range, alarm status… and to get access to the menus.

The analyzer integrates some data storing facilities and an automatic calibration on 1 or 2 points function. All data are available on digital interface RS232 or on parallel port.

The IR technology requires a dry gas. The instrument could be coupled to a gas dryer and special filter especially for measurement on flue gases.

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Ranges

CO_2	CO	CH_4
0 – 500 ppm 0 – 1000 ppm 0 – 2000 ppm 0 – 3000 ppm 0 – 5000 ppm 0 – 1 % 0 – 3 % 0 – 10 % 0 – 30 % 0 – 100 %	0 – 3 % 0 – 10 % 0 – 30 % 0 – 100 %	0 – 1 % 0 – 5 % 0 – 10 % 0 – 30 % 0 – 100 %

Technical Characteristics

	Rack 19'' version	Portable version
Measurement principle	Non dispersive infra red absorption	
Display	Digital	
Accuracy	± 2% of full scale	
Repeatability	± 1% of full scale	
Drift	Less than ± 2.0% of full scale	
Operating temperature	From +5 to +50°C	
Response time	T_{90} < 10sec.	
Sensor	Temperature monitored at 50°C	
Pressure	1 bar max.	
Flow gas	0.5 L/min recommended	
Output signals	4 – 20 mA, 0 -1 V, RS232, parallel port	
Power supply	230 VAC, 50/60 Hz	Rechargeable battery
Dimensions (L * H * P)	483 * 133 * 400 mm	260 * 190 * 305 mm
Weight	10 kg	7 kg

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Codification

Device	
2008-IR to measure the CO_2	ARCMP60
2008-IR to measure the CO	ARCMP70
2008-IR to measure the CH_4	ARCMP80

Voltage	
230 VAC	0
110 VAC	1

Analyzer type	
Sensor integrated in Rack instrument	-
Portable analyzer	P

Range		
0 – 500 ppm	Only for CO_2	A
0 – 1000 ppm	Only for CO_2	B
0 – 2000 ppm	Only for CO_2	C
0 – 3000 ppm	Only for CO_2	D
0 – 5000 ppm	Only for CO_2	E
0 – 1 %	Except CO	F
0 – 3 %	Except CH_4	G
0 – 5 %	Except CO	H
0 – 10 %		I
0 – 30 %		J
0 – 100 %		K

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

Spare parts		

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