

S24N-2020

oxygen analysis in extractive systems



The S24N-2020 oxygen analyser has been engineered to be associated to the CEM systems.

Thanks to its unique design the analyser is operating satisfactorily in sampling systems either over or under the atmospheric pressure. The entire sensor can be maintained at high temperature (up to 200°C) to avoid the formation of cold points.

Because its design is optimised for long-term use in industrial conditions, the S24N-2020 analyser shows 3 major factors of success :

- Simple setting up with no need for any reference air (MicroPoas*).
- Easy to use: 3 keys only give access to all the control unit's functions.
- Simple interfacing with your CEM systems.

*Patented design (University of Grenoble - France)

- *Continuous emission monitoring.*
- *Compliance with QAL1 requirements as AMS.*
- *The sensor can be completely heated beyond acidic dew points.*
- *Diffusion principle of measurement ensuring the most efficient protection of the sensitive element.*
- *User-friendly, fast setting.*
- *Almost maintenance-free, low servicing requirements.*
- *Extremely high reliability.*
- *2 presentations for the electronic enclosure (19" rack or wall cabinet).*



TECHNICAL SPECIFICATION

SENSOR	Measurement principle	MicroPoas* (Doc. ref.S101GB), zirconia sensor with built-in metallic reference (S24N5 presentation)
	Maximum temperature for the gases to be analysed	230°C (standard model)
	Response time (t ₉₀ @1l/mn)	around 60 sec
	Operating conditions	Humidity : 5 to 100% Temperature : -20 to 200°C
	Materials in contact with gases	304 L stainless steel, Inconel 600
	Dimensions	175 (h) x 53 (Ø) mm (connections excluded)
	Minimum gas flow	0.5 l/mn
	Nominal gas flow	1 to 2 l/mn
ELECTRONICS	Length of attached cable	0.70 meter (other length on request)
	Range	0.01 to 25 %vol. O ₂
	User-friendly operation	Display of operation parameters, nature of faults
	Display resolution	0.1 % or 0.01 % on particular request
	Output signals	0-20 mA or 4-20 mA, linear, with galvanic isolation, can be configured between 0.01 and 25 %
	Alarms	2 threshold alarms and 1 general fault alarm
	Accuracy	2 % relative
	Dimensions and Weight	■ 19" Rack : (w)482.5 x (h)162 x (d)270 mm - 5 kg ■ Wall cabinet : (w)300x(h)300x(d)200mm - 5 kg
	Operating conditions	■ Humidity : 5 to 90% without condensation ■ Temperature : 0 to 55°C
	Power Supply and consumption	230 V - 50/60 Hz - 110 VA
Certification	NF IE controlled by ACIME under Nr. 379 - 04/01/02-01. Awaiting MCerts certification	

OPTIONS

- Calibration kit
 - 115V 50/60 Hz power supply
 - Gas inlet-outlet positioning at 60, 90 or 180°
 - RS232 port

Specifications are subject to change - for improvement purposes - without notice.