

JC48V

Trace oxygen analyser



touchscreen

JC48V can measure oxygen from ppm level to 25%. It is specially designed for producers of industrial gases and for thermal treatment.

Thanks to our patented MicroPoas¹, the JC48V has many advantages:

- Reliability and reproducibility: the unique built-in metallic reference of the sensor makes measurements completely independent from the outside ambient conditions.
- Rapidity, steadiness and great accuracy owing to the small size of MicroPoas, the small volume of the gas circuit and the embedded bypass.
- Easy setup with no need for any reference air, standard 19" rack for easy integration in your installation.

¹ Patented design (University of Grenoble - France)

- Control of pure gases and gas mixtures.
- Very fast response time.
- User friendly: graphic touchscreen for intuitive operation.
- From 0.01 ppm to 25% O₂ in a single range.
- Extremely high reliability and high performance.
- Almost maintenance-free and low servicing requirements.
- Low sensitivity to reducing gases owing to a special MicroPoas.

TECHNICAL SPECIFICATION

Measurement principle	MicroPoas* (Document ref.S101GB), Zirconia sensor with built-in metallic reference
Range	0.01 ppm to 25% O ₂
Flow rate	2 ± 1 l/h ; integrated bypass
Maximum intake pressure and temperature	68 bars 110°C
Response time	< 2sec.
User-friendly operation	Display of operation parameters, error messages, alarm warning of flow defect.
Output signals	2 outputs: 0-20 mA or 4-20 mA, linear signal, with galvanic insulation 1 RS485 digital output, ModBus communication protocole.
Output scales	0.1 to 10 ppm - 0.1 to 100 ppm - 1 to 1 000 ppm - 10 to 10 000 ppm - 0.1 to 10% - 0.1 to 25% - logarithmic scale 1 ppm to 25%
Alarms	2 thresholds alarms and 1 general fault alarm. The thresholds can be adjusted according to the output scale selected.
Accuracy	2% relative Integrated atmospheric pressure correction.
Display resolution	0.01 ppm between 0.01 ppm-10 ppm ; 0.1 ppm between 10 ppm-10 000 ppm ; 0.01% between 1%-10 % ; 0.1% between 10%-25%.
Power supply	90 to 230 V - 50/60 Hz ; 50 VA
Dimensions and weight	19" Rack - 3U: 482,5 x 133 x 235 mm - 8 kg With integrated pump: 482,5 x 133 x 365 mm - 10 kg
Environment	Temperature: 0 to 55°C Humidity: 5 to 90% without condensation

OPTIONS

- Circulation pump
- Automatic calibration

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