

GPR-1500 GB, GPR-2500 GB

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

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Астрахань (8512)99-46-04	Калуга (4842)92-23-67	Омск (3812)21-46-40	Ставрополь (8652)20-65-13
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Иваново (4932)77-34-06	Мурманск (8152)59-64-93	Саратов (845)249-38-78	Челябинск (351)202-03-61
Ижевск (3412)26-03-58	Набережные Челны (8552)20-53-41	Севастополь (8692)22-31-93	Череповец (8202)49-02-64
Иркутск (395)279-98-46	Нижний Новгород (831)429-08-12	Симферополь (3652)67-13-56	Ярославль (4852)69-52-93
Россия (495)268-04-70	Киргизия (996)312-96-26-47	Казахстан (7172)727-132	

Oxygen monitors for gloveboxes and nitrogen generators

GPR-1500 GB & GPR-2500 GB

Designed specifically for measuring oxygen in glove boxes from air (21% O₂) down to low levels (0-10 ppm O₂), this oxygen monitor range has easy installation options that ensure the best fit with the glove box operators needs. The analyzer or remote sensors can be connected directly on the glove box using a KF-40 flange. In the remote version the oxygen sensor can be placed in the glove box using our sample/calibration module.



Highlights

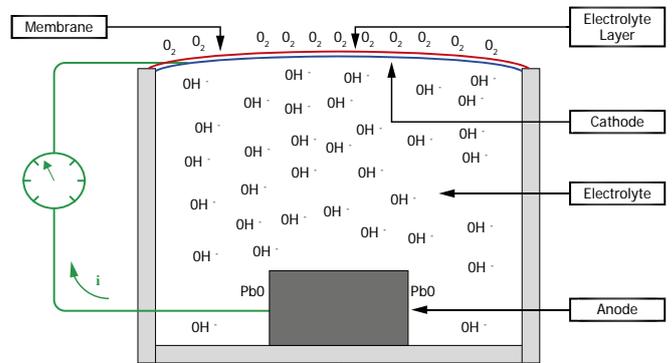
- Measurement ranges from 0-10ppm up to 0-25% O₂
- Accuracy of better than 2% of selected range
- 24 months sensor life span (in normal use)
- 4-20 mA output
- 18-24V loop powered
- XLT sensor options for CO₂ backgrounds

Applications

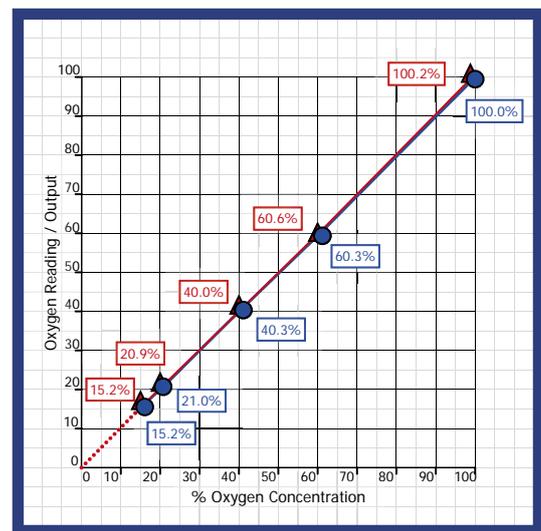
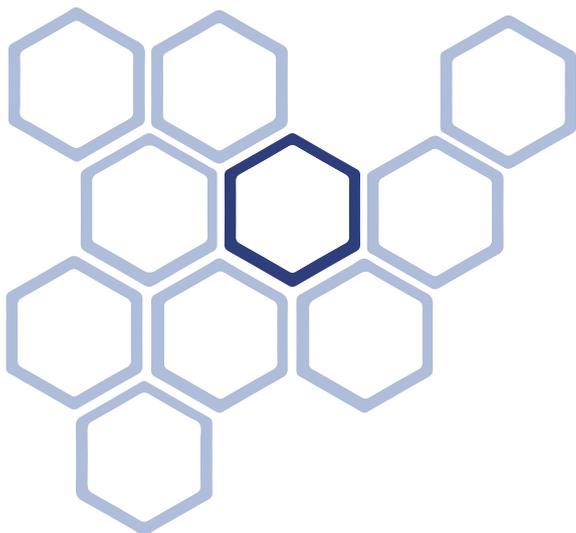
- Monitoring oxygen in glove boxes
- Oxygen depletion in confined spaces (GPR-2500 only)
- Measuring oxygen in nitrogen generators

Sensor Technology

The sensors from AII have been designed to avoid potential weaknesses common in typical galvanic cell design. Our materials, construction and assembly methods have been continuously refined over decades. Each sensor type has been specifically engineered to provide the optimum balance between performance and longevity for individual applications. The result is confidence in the measurement and low maintenance. In the absence of oxygen, the sensor will produce zero output and the sensor is linear up to 100%, therefore only a span calibration is required in most cases (see graph).



Sensor Construction



Typical sensor output

The Analytical Industries' XLT sensor

For applications with a background gas containing more than 0.5% CO₂, the specially designed XLT sensor should be selected. With most standard electrochemical sensors an alkaline electrolyte is used and this is neutralised over time when exposed to acidic gases, such as CO₂. To combat this, AII developed the XLT sensor with a special electrolyte formula which has the added benefit of being able to operate in temperatures as low as -10°C.

Options available for all models

- Mounting:** KF-40 flange fitting on analyzer or remote sensor
Flow-through housing with 1/8" compression fitting
Sample/calibration module
- XLT sensor:** For use in backgrounds containing carbon-dioxide



GPR-1500 GB

For trace oxygen measurements as low as 0.1 ppm O₂ in various background gases. The sensor is housed in a stainless steel case that can be screwed into place.

Options:

- Calibration module:** Special stand for sampling or calibration (SS-3170)
- Available ranges:** 0-10, 0-100, 0-1,000 ppm & 0-1% O₂, 0-25% for calibration only



GPR-2500 GB

For oxygen measurements from 21% down to 100 ppm O₂ in a range of gas backgrounds.

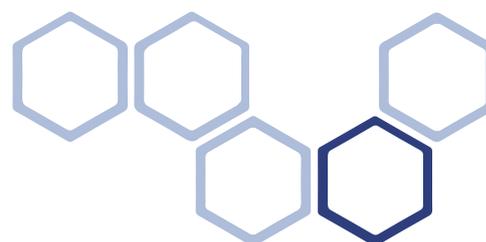
Options:

- Calibration module:** Special stand for sampling or calibration (B-3170)
- Available ranges:** 0-1, 0-5, 0-10% and 0-25%



Technical Specifications

	GPR-1500 GB	GPR-2500 GB
Measurement range	0-10, 0-100, 0-1000 ppm, 0-1%, 0-25%	0-1%, 0-5%, 0-10%, 0-25%
Accuracy	< 2% of selected range at constant conditions	
Response time	T90 < 10 seconds	
Recovery time	60 seconds in air to < 10 ppm in < 1 hour on N ₂ purge	Not applicable
Sensitivity (LDL)	0.05 ppm	0.005 %
Linearity	< 1% of scale	
Sensor model	GPR-12-333-M	GPR-11-32-4
	XLT-12-333-M for gases containing > 0.5% CO ₂	XLT-11-24-4 for gases containing > 0.5% CO ₂
Sensor life at 25°C (77°F) and 1 atm	24 months in < 1000 ppm O ₂ 6 months in air	GPR-11-32-4 32 months in air XLT-11-24-4 24 months in air
Calibration interval	30 days	
Inlet pressure	Nominally atmospheric Flow through system: 0.34-2 barg (5-30 psig) with atmospheric vent	
Flow rate	Ambient monitoring or Flow through system 0.5-1 NI/min (1-2 SCFH)	
Gas connections	KF 40 flange or 1/8" compression tube fittings (with flow through housing)	
Wetted parts	GPR-1500 GB Stainless steel GPR-2500 GB Delrin	
Display	Graphical LCD 7 x 3.5cm (2.75 x 1.375"); resolution 0.001	
Enclosure	Painted aluminum, 7.6 x 10.1 x 5.1cm (3 x4 x2")	
Weight	900g (2lbs)	
Compensation	Temperature	
Signal output	4-20mA (loop current)	
Alarms	None	
Operating temperature	GPR sensor: 5°C to 45°C (41°F to 113°F) XLT sensor: -10°C to 45°C (14°F to 113°F)	
Power	18-24 V DC two wire loop	
Area classification	General purpose	



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