



Advanced Instruments Inc.

Gas analysis solutions through advanced analyzer and sensor technology

Technical Specifications

Accuracy:	< 1% of FS range under constant conditions
Analysis:	0-10 ppm, 0-100, 0-1000 ppm, 0-1%, 0-25% FS ranges; auto-ranging or manually lock on single range
Application:	Oxygen analysis from 200 ppb to 1% in inert, helium, hydrogen, mixed and acid (CO ₂) gas streams
Approvals:	CE, Intrinsic Safety (pending)
Area Classification:	Meets recognized intrinsic safety standards for use in Class 1, Division 1, Group A-D hazardous areas
Alarms:	None
Calibration:	Certified gas of O ₂ balance N ₂ approximating 80% of range above analysis range recommended for optimum results
Compensation:	Temperature
Connections:	1/8" quick disconnects (mating connectors supplied)
Controls:	Water resistant keypad; menu driven range selection, calibration and system functions
Display:	Graphical LCD 2.75" x 1.375"; resolution .01 ppm; displays real time ambient temperature and pressure
Enclosure:	Painted aluminum NEMA 4X, 4x9x3", 8 lbs.
Flow Sensitivity:	None between 0.5-5 SCFH, 2 SCFH recommended
LED Indicators:	LOW BATT (72 hr. warning); CHARGE mode
Linearity:	> .995 over all ranges
Pressure:	Inlet - regulate to 5-30 psig; vent - atmospheric
Power:	Rechargeable battery, 60 day duty cycle
Recovery Time:	60 seconds in air to < 10 ppm in < 1 hr on N ₂ purge
Response Time:	90% of final FS reading in 10 seconds
Sample System:	None - designate either connection as inlet or vent
Sensitivity:	< 0.5% of FS range
Sensor Model:	GPR-12-333 - requires no maintenance
Sensor Life:	24 months at 25°C and 1 atm; average O ₂ < 1,000 ppm
Signal Output:	0-1V
Temp. Range:	5° to 45°C (GPR sensor), -20° to 45°C (XLT sensor)
Warranty:	12 months analyzer; 12 months sensor
Wetted Parts:	Stainless steel

Optional Equipment

- XLT-12-333 sensor with > 0.5% CO₂ present
- Carrying case with custom foam insert
- Sample conditioning accessories - contact factory



GPR-1100 **Portable ppm O₂ Analyzer**

Advanced Sensor Technology

- Accuracy < 1% FS Range**
- Sensitivity < 0.5% FS Range**
- Fast Recovery to < 10 ppm**
- 24 Month Expected Life**
- No Maintenance**
- Compatible in 0-100% CO₂**

Intrinsically Safe Design

- 5 Standard Analysis Ranges**
- Auto-ranging or Manual**
- Stainless Steel Wetted Parts**
- 0-1V Signal Output**
- Water Resistant Enclosure**

- Certified ISO 9001 QA System**

