



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, 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 / ATEX; 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 span gas of O ₂ approximating 80-90% of FS balance N ₂ above analysis range recommended
Compensation:	Barometric pressure and temperature
Connections:	1/8" quick disconnects (mating connectors supplied)
Controls:	Water resistant keypad; menu driven range selection, calibration, alarm 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
Sensitivity:	< 0.5% of FS range
Sensor:	GPR-12-333 ppm Oxygen Sensor - no maintenance
Sensor Life:	24 months with average O ₂ level < 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 sensor housing, tubing and fittings

Optional Equipment

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



GPR-1100

Portable ppm O₂ Analyzer

Advanced Sensor Technology

Sensitivity 50 ppb

Fast Recovery

24 Month 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