



# Advanced Instruments Inc.

Gas analysis solutions through advanced analyzer and sensor technology

## Technical Specifications

Accuracy:	< 1% of FS range under constant conditions
Analysis:	0-1%, 0-5%, 0-10%, 0-25% FS ranges; auto-ranging or manually lock on single range
Application:	Oxygen analysis from 0.05% (500 ppm) to 100% in inert, helium, hydrogen, mixed and acid (CO <sub>2</sub> ) 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 (see Options)
Alarms:	None
Calibration:	Certified gas of O <sub>2</sub> balance N <sub>2</sub> approximating 80% of range above analysis range recommended for optimum results
Compensation:	Temperature
Connections:	1/8" barbed tube fittings
Controls:	Water resistant keypad; menu driven range selection, calibration and system functions
Display:	Graphical LCD 2.75" x 1.375"; resolution .001%; displays real time ambient temperature and pressure
Enclosure:	Painted aluminum NEMA 4X, 4"x9"x3", 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 - ambient to 5" Hg vacuum; vent - atmospheric
Power:	Rechargeable battery, 8 hours continuous pump use
Response Time:	90% of final FS reading in 10 seconds
Sample System:	None
Sensitivity:	< 0.5% of FS range
Sensor Model:	GPR-11-32-RT (0.05% or 500 ppm offset) 36 month life; GPR-11-21-RT (0.01% or 100 ppm offset) 9 month life; no maintenance required
Sensor Life:	Life specified in air at 25°C and 1 atm
Signal Output:	0-1V
Temp. Range:	-10° to 45°C (GPR sensor), -20° to 45°C (XLT sensor)
Warranty:	12 months analyzer; 12 months sensor
Wetted Parts:	Corrosion resistant plastic and metals

## Optional Equipment

XLT-11-24-RT sensor with > 0.5% CO<sub>2</sub> present; (0.05% offset) 24 month life  
 Integral sampling pumps: GP (voids intrinsically safe design) or IS design  
 Carrying case with custom foam inserts  
 Sample conditioning accessories - contact factory



## **GPR-2000 P** **Portable Oxygen Analyzer**

**Advanced Sensor Technology**

**Sensitivity 50 ppm**

**Fast Recovery**

**36 Month Life**

**No Maintenance**

**Compatible in 0-100% CO<sub>2</sub>**

**Intrinsically Safe Design**

**Choice of Integral Sampling Pumps**

**GP or Intrinsically Safe Designs**

**4 Standard Analysis Ranges**

**Auto-ranging or Manual**

**0-1V Signal Output**

**Water Resistant Enclosure**

**Certified ISO 9001 QA System**

