



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% to 100% in inert, helium, hydrogen, mixed and acid (CO ₂) gas streams
Approvals:	CE
Area Classification:	General purpose; with optional safety barriers 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:	Barometric pressure and temperature
Connections:	1/8" compression 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
Linearity:	> .995 over all ranges
Pressure:	Inlet - regulate to 5-30 psig; vent - atmospheric
Power:	12-28VDC two wire loop power; minimum 24VDC with optional intrinsic safety barriers
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-11-32-4 - requires no maintenance
Sensor Life:	36 months in air at 25°C and 1 atm
Signal Output:	4-20mA
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 material

Optional Equipment

XLT-11-24-4 sensor with > 0.5% CO₂ present (24 month life as above)
 Suitable for use in Class 1, Division 1, Group A-D with intrinsic safety barriers
 Sample conditioning accessories - contact factory



GPR-2500 **2 Wire Loop Powered** **Oxygen Transmitter**

Advanced Sensor Technology

Accuracy < 1% FS Range

Sensitivity < 0.5% FS Range

Fast Response

Extended Operating Range

36 Month Expected Life, No Maintenance

Intrinsically Safe with Optional Barriers

4-20mA Signal Output

12-28VDC Loop Powered

4 Standard Analysis Ranges

Auto-ranging or Manual

Water Resistant Enclosure

Certified ISO 9001 QA System

