



Advanced Instruments Inc.

Gas analysis solutions through advanced analyzer and sensor technology

Technical Specifications

Accuracy:	< 1% of FS range at constant conditions; inherent accuracy of 0.1% following calibration with 95-100% oxygen
Analysis:	0-100% FS range
Application:	Continuous monitoring of high purity oxygen levels up to 100% oxygen in inert, helium, hydrogen and mixed gases
Approvals:	CE
Area Classification:	General purpose; meets recognized intrinsic safety standards for use in Class 1, Division 1, Group A-D hazardous areas with optional safety barriers
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:	Inlet - 1/8" and vent - 1/4" compression fittings
Controls:	Water resistant keypad; menu driven range selection, calibration and system functions
Display:	Graphical LCD 2.75" x 1.375"; resolution .1%; 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:	0.1% oxygen
Sensor Model:	GPR-11-120-4 - requires no maintenance
Sensor Life:	24 months in 100% oxygen at 25°C and 1 atm
Signal Output:	4-20mA
Temp. Range:	5° to 45°C
Warranty:	12 months analyzer; 12 months sensor
Wetted Parts:	Stainless steel

Optional Equipment

Suitable for Class 1, Division 1, Groups A-D with intrinsic safety barriers
Sample conditioning accessories - contact factory



GPR-2500 MO Oxygen Purity Transmitter

Advanced Sensor Technology

Accuracy < 1% FS Range

Sensitivity < 0.1% Oxygen

Fast Response

24 Month Expected Life in 100% Oxygen

No Maintenance

Intrinsically Safe with Optional Barriers

Temperature & Pressure Compensated

4-20mA Signal Output

12-28VDC 2 Wire Loop Powered

Water Resistant Enclosure

Certified ISO 9001 QA System

