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 100 ppb to 1% in inert, helium, hydrogen, mixed and acid (CO ₂) gas streams
Approvals:	CE
Area Classification:	General purpose
Alarms:	2 adjustable form C relay contacts non-latching; "weak sensor" indicator; power failure; system failure
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; optional heated sample system and sensor housing
Connections:	1/4" compression tube fittings
Controls:	Water resistant keypad; menu driven range selection, calibration, alarm and system functions
Data Acquisition:	Selectable data point intervals
Display:	Graphical LCD 5 x 2.75; resolution .001 ppm; displays real time ambient temperature and pressure
Enclosure:	Painted aluminum 7.5" x 10.8" x 12.25" panel mount
Flow Sensitivity:	None between 1-3 SCFH, 2 SCFH recommended
Linearity:	> .995 over all ranges
Pressure:	Inlet - regulate to 5-30 psig, max 100 psig; vent - atmospheric
Power:	Universal; specify 100/120 or 220/240 VAC with heater
Recovery Time:	60 seconds in air to < 10 ppm in < 1 hr on N_2 purge
Response Time:	90% of final FS reading < 10 seconds
Sample System:	Flow control and sample/bypass valves; flow indicator
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 $O_2 < 1000$ ppm
Signal Output:	4-20mA isolated and 0-1V
Temp. Range:	5° to 45°C
Warranty:	12 months analyzer; 12 months sensor
Wetted Parts:	Stainless steel

Optional Equipment

XLT-12-333 ppm Oxygen Sensor with > 0.5% CO₂ present Bezel for 19" rack mounting; wall mount NEMA4 and 4X enclosures Temperature controlled heater system for elimination of drift and outdoor use Sample conditioning accessories - contact factory



GPR-1600 Process ppm 0₂ 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 Auto Zero, Span Calibration 5 Standard Analysis Ranges Auto-ranging or Manual SS Bypass Sample System Bypass Loop > Productivity Remote Communication Link Certified ISO 9001 QA System



