



Technical Specifications *

Accuracy:	< $\pm 1\%$ 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
Alarms:	2 adjustable form C relay contacts non-latching; "weak sensor" indicator; power failure; system failure
Calibration:	Ambient or compressed air on 0-25% range; or certified span gas of O ₂ balance N ₂ approximating 80% of range above analysis range recommended for optimum results
Compensation:	Barometric pressure and temperature; optional temperature controlled heated sample system
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 1-5 SCFH, 2 SCFH recommended
Linearity:	> .995 over all ranges
Pressure:	Inlet - regulate to 5-30 psig, max 100 psig; vent - atmospheric
Power:	Universal; specify 110 or 220 VAC with optional heater
Range ID:	4-20mA or 5x form C relay contacts plus common
Recovery Time:	Air to < 0.1% in < 30 seconds on N ₂ purge
Response Time:	90% of final FS reading < 10 seconds
Sample System:	Wetted parts: corrosion resistant materials, stainless steel optional, includes flow meter with integral metering valve
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 isolated and 0-1V
Temp. Range:	-10° to 45°C (GPR sensor); -20° to 45°C (XLT sensor)
Warranty:	12 months analyzer; 12 months sensor

Optional Equipment

XLT-11-24-4 Oxygen Sensor with > 0.5% CO₂ present; 24 month life
 19" rack mount bezel; wall mount enclosures (see back page)
 Temperature controlled heater system for elimination of drift and outdoor use
 Sample conditioning accessories - contact factory

* Specifications subject to change without notice, may vary with analyzer

GPR-2600 Series Process O₂ Analyzer



Advanced Sensor Technology

Accuracy < $\pm 1\%$ FS Range
Sensitivity < 0.5% FS Range
Fast Response
Extended Operating Range
36 Month Expected Life
No Maintenance
Compatible in 0-100% CO₂

Auto Zero, Span Calibration

4 Standard Analysis Ranges

Auto Ranging & Manual Selections

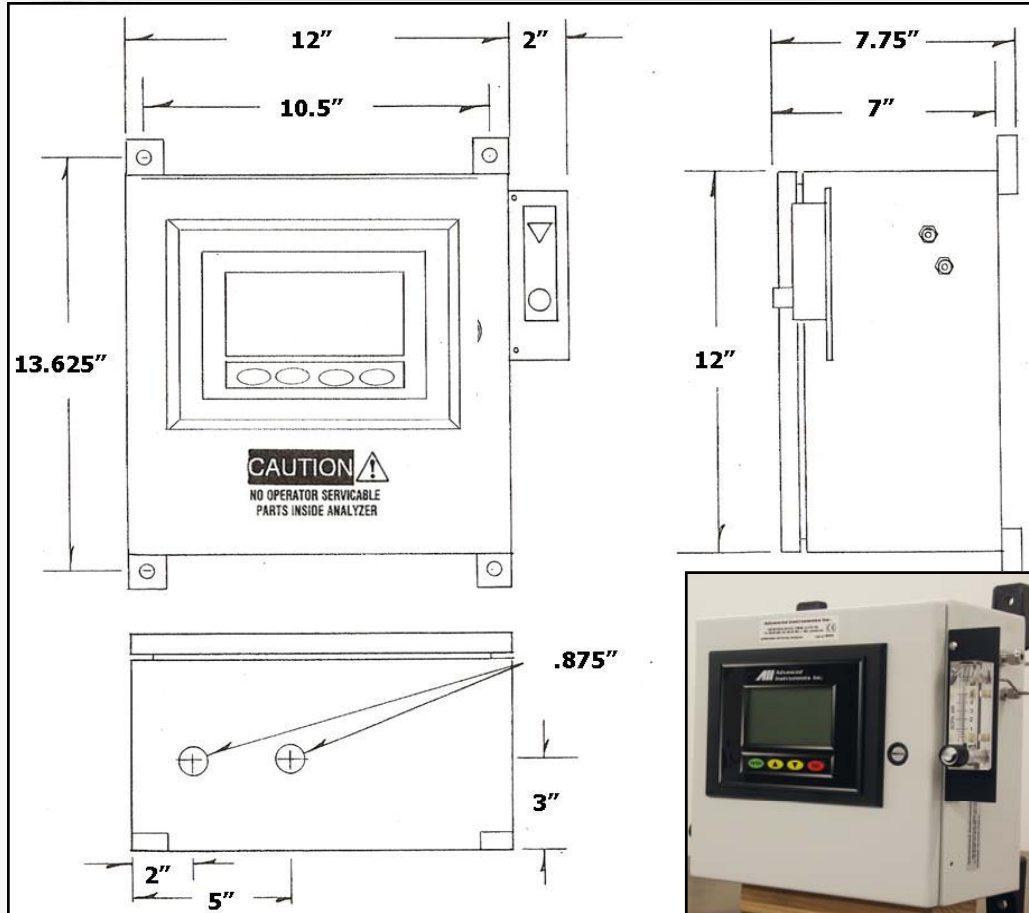
Custom Sample Systems

Remote Communication Link

Certified ISO 9001 QA System



GPR-2600 W Process ppm O₂ Analyzer

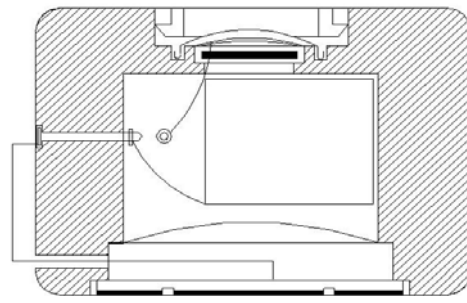


Advanced Sensor Technology

The sensor is the heart of any analyzer, thus the caliber of sensor technology is the critical factor in analyzer performance. Advanced Instruments focuses on optimizing the sensor to meet specific application needs and has produced the first real advancements in sensor technology in decades. All sensors are manufactured under an independently certified QA system that complies with ISO 9001:2000.

Advancements:

- Innovative design, materials
- Control O₂ reaction
- Proprietary mfg process
- Extend operating temperature
- Insensitive to vibration
- Compact inexpensive design



Galvanic Percent Oxygen Sensor

Performance:

- Accuracy $< \pm 1\%$ FS
- Sensitivity 0.5% FS (500 ppm)
- Service life up to 10 yrs in air
- 40°C (GPR); -20°C (XLT) to 45°C
- Linear pressure comp to 1 atm
- No sensor maintenance