



# Advanced Instruments Inc.

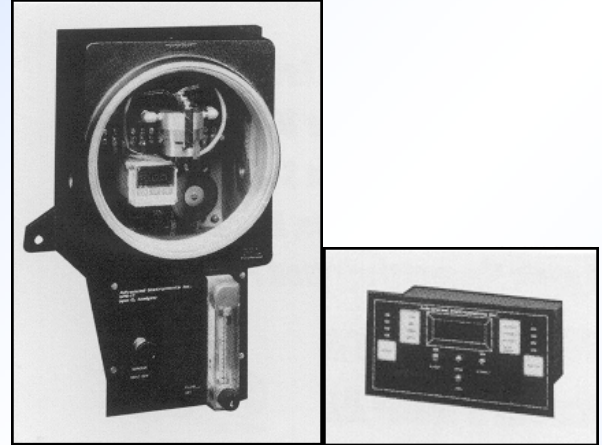
Gas analysis solutions through advanced analyzer and sensor technology

## Technical Specifications

|                      |  |
|----------------------|--|
| Accuracy:            | < 1% of FS range under constant conditions   |
| Analysis:            | 0-1%, 0-5%, 0-10%, 0-25% FS ranges   |
| Application:         | Oxygen analysis from 0.05% to 100% in inert, helium, hydrogen, mixed and acid (CO <sub>2</sub> ) gas streams                           |
| Approvals:           | Enclosure CSA, FM, CE  |
| Area Classification: | Electronics: General purpose; Analysis Unit: Enclosure Class 1, Division 1, Groups B, C, D NEMA4/7 with optional flame arrestors       |
| Alarms:              | 2 adjustable form C relay contacts non-latching; sensor and power failure  |
| 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" compression tube fittings   |
| Controls:            | Explosion proof actuators for range selection, zero and span calibration adjustments   |
| Data Acquisition:    | None   |
| Display:             | 3-1/2 digit bright red LCD; resolution .001%   |
| Enclosure:           | Electronics: 6" x 3" x 4" panel mount; 40 lbs.   |
| 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;<br>vent - atmospheric not to exceed $\pm 14$ " water column                               |
| Power:               | Specify 100/120 or 220/240 VAC   |
| Response Time:       | 90% of final FS reading < 10 seconds   |
| Sample System:       | Flow meter   |
| 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   |
| Wetted Parts:        | Stainless steel  |

## Optional Equipment

XLT-11-24-4 sensor with > 0.5% CO<sub>2</sub> present; 24 month sensor life  
Temperature controlled heater system (recommended for outdoors)  
Sample conditioning accessories - contact factory



## **GPR-27 Semi - Explosion Proof Process ppm O<sub>2</sub> Analyzer**

**Class 1, Division 1, Groups B, C, D**

**Advanced Galvanic Sensor Technology**

**Accuracy < 1% FS Range**

**Sensitivity < 0.5% FS Range**

**Fast Response**

**Excellent Stability**

**24 or 36 Month Expected Life**

**No Maintenance**

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

**4 Standard Analysis Ranges**

**SS Sample System**

**Adjustable HI, LO Alarms**

**Isolated 4-20mA Signal Output**

**Certified ISO 9001 QA System**

