



## Advanced Instruments Inc.

### "Innovative solutions to gas analysis"

An advanced electrochemical PPM oxygen sensor combined with proven state of the art electronics and a unique sample system in a rugged metal enclosure enables the GPR-1200 Portable PPM Oxygen Analyzer to quantify PPM oxygen contamination in industrial gases & cylinders; product transport & storage (marine, rail, truck, pipeline); petrochemical processes; beverage grade CO2 while increasing productivity.

The GPR-1200 is available in ATEX certified intrinsically safe and general purpose configurations, both of which include options to customize the analyzer for unique applications.

The sensor requires no maintenance and tracks oxygen levels from air (20.9%) to below 100 PPB in addition to:

- Superior stability and sensitivity at PPM oxygen levels
- Specific to oxygen assuring accuracy and linearity
- Fast 7 second response time
- Unaffected by changes in flow, moisture or vibration
- Single point field calibration with air or span gas
- Easy to replace after extended 24 month service life

Compensating for changes in barometric pressure and temperature eliminate environmental influences and assure the reliability and accuracy of oxygen readings.

Productivity and ROI are significantly increased by an integral sample/isolation valve that maintains the atmosphere surrounding the sensor at PPM oxygen levels when not in use or switching between sample points, thereby reducing the recovery time (downtime) to seconds.

# ATEX Certified **Portable PPM Oxygen Analyzer**

## **Process Quality & Productivity**



#### Technical Specifications \*

0-10, 0-100, 0-1000 PPM, 0-1%, 0-25% (air CAL) FS Analysis Range:

< 2% of FS range under constant conditions; Accuracy:

± 5% of FS over operating temperature range

Compensation: Temperature

90% of final reading in 7 seconds Response Time:

Recovery < 10 PPM: < 60 min from 2 min exposure to air on N2 purge

Linearity: ±1% of full scale

Sensitivity: < 0.5% of FS range

5° to 45°C (GPR sensor); -10° to 45°C (XLT sensor) Operating Temp:

Signal Output:

Display: Graphical LCD; resolution .01 PPM; real time ambi-

ent temperature and pressure

LED Indicators: LOW BATT (72 hr. warning); CHARGE mode

Calibration: Certified span gas with O2 approximating 80% of

FS balance N2 or air; max interval 3 months

Pressure: Inlet - 5-30 psig; vent - atmospheric

Flow: 1-2 SCFH recommended Sensor Model: GPR-12-333; XLT-12-333 (CO2 > 1%)

Sensor Life: 24 months at < 1000 PPM O2 at 25°C and 1

atm (life varies inversely with changes)

Warranty: 12 months analyzer; 12 months sensor

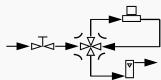
Rechargeable battery (60 hour duty cycle) Power:

Connections: 1/8" compression tube fittings

Wetted Parts: Stainless steel

Enclosure: Painted aluminum, 8.6 x 9 x 3", 13 lbs.

Sample System: Flow and sample / isolation valves, flow meter



Optional equipment:

Integral sample pump, pressure regulator; external coalescing filter, H2S scrubber

Product Certification: ATEX Directive 94/9/EC, INERIS 10ATEX0020,



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