



**Analytical Industries Inc.**  
**Advanced Instruments Inc.**

## GPR-1200 INTRINSICALLY SAFE PORTABLE PPM O<sub>2</sub> ANALYZER

ATEX certified intrinsically safe portable PPM oxygen analyzer, 0-10 PPM low range, measures O<sub>2</sub> concentrations from 0.01 PPM to 1% Features certification to ATEX Directive 94/9/EC. The only truly reliable portable PPM analyzer on the market.

### Features

- proprietary galvanic type oxygen sensor
- field proven reliability
- 24 month operating life with no periodic maintenance
- user friendly digital electronics
- stainless steel 4-way sample/bypass system that enables

### Certification:

Ex ia IIB T4 Gb  
 T<sub>amb</sub> -10°C to 45°C



## TECHNICAL SPECIFICATIONS

<b>*Accuracy:</b>	< 2% of FS range under constant conditions	<b>Analysis Ranges:</b>	0-10 PPM, 0-100, 0-1000 PPM, 1% and 25%
<b>Sensitivity:</b>	<0.5% of lowest full scale range	<b>Linearity:</b>	>0.995 over all ranges
<b>Application:</b>	Oxygen analysis in N <sub>2</sub> , H <sub>2</sub> , He, Ar, mixed and CO <sub>2</sub> gas streams	<b>Approvals:</b>	Ex ia IIB T4 Gb, T <sub>amb</sub> -10°C to 45°C
<b>Area Classification:</b>	Class I, Division 1, Groups C, D	<b>Calibration:</b>	Certified span gas of O <sub>2</sub> balance N <sub>2</sub>
<b>Compensation:</b>	Barometric pressure and temperature	<b>Connections:</b>	1/8" compression tube fittings
<b>Controls:</b>	Menu driven range selection, calibration and system functions	<b>Display:</b>	LCD 2.75 x 1.375"; resolution .01 PPM
<b>Enclosure:</b>	Painted aluminum NEMA 4X, 8.6 x 9 x 3", 12 lbs.	<b>Sample Flow:</b>	Recommended flow rate 1-2 SCFH
<b>LED Indicators:</b>	LOW BATT (72 hr. warning); CHARGE mode	<b>Signal Output:</b>	0-1 VDC
<b>Pressure:</b>	Inlet – regulate to 5-30 psig; vent – atmosphere	<b>Power:</b>	Rechargeable battery, 30 day cycle, 8 hrs with pump
<b>Recovery Time:</b>	30 seconds in air to < 10 PPM in < 60 min on N <sub>2</sub> purge	<b>Response Time:</b>	90% of final FS reading in 10 seconds
<b>Sample System:</b>	Flow control and 4-way sample/bypass valves; flow indicator	<b>Wetted Parts</b>	Stainless steel
<b>Sensor Model:</b>	GPR-12-333	<b>Expected Sensor Life:</b>	24 months
<b>Temp Range:</b>	5°C to 45°C	<b>Temp. Range:</b>	12 months analyzer, 12 months sensor

\*At constant temperature and pressure

Optional Equipment	
GPR-12-233-H	Sensor for gas mixtures containing H <sub>2</sub> >1%
XLT-12-333	Sensor for gas mixtures containing CO <sub>2</sub> ? >0.5%
Data Logger	Internal data logger