



## "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 increases Process Quality & Productivity



### GPR-1200



### Technical Specifications \*

Analysis Range:	0-10, 0-100, 0-1000 PPM, 0-1%, 0-25% (air CAL) FS	Sensor Model:	GPR-12-333; XLT-12-333 (CO2 > 1%)
Accuracy:	< 2% of FS range under constant conditions; ± 5% of FS over operating temperature range	Sensor Life:	24 months at < 1000 PPM O2 at 25°C and 1 atm (life varies inversely with changes)
Compensation:	Temperature	Warranty:	12 months analyzer; 12 months sensor
Response Time:	90% of final reading in 7 seconds	Power:	Rechargeable battery (60 hour duty cycle)
Recovery < 10 PPM:	< 60 min from 2 min exposure to air on N2 purge	Connections:	1/8" compression tube fittings
Linearity:	±1% of full scale	Wetted Parts:	Stainless steel
Sensitivity:	< 0.5% of FS range	Enclosure:	Painted aluminum, 8.6 x 9 x 3", 13 lbs.
Operating Temp:	5° to 45°C (GPR sensor); -10° to 45°C (XLT sensor)	Sample System:	Flow and sample / isolation valves, flow meter
Signal Output:	0-1V FS		
Display:	Graphical LCD; resolution .01 PPM; real time ambient 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	Optional equipment:	Integral sample pump, pressure regulator; external coalescing filter, H2S scrubber
Pressure:	Inlet - 5-30 psig; vent - atmospheric	Product Certification:	ATEX Directive 94/9/EC, INERIS 10ATEX0020,
Flow:	1-2 SCFH recommended		 II 2 G Ex ib IIB T4 T <sub>amb</sub> +5°C to +45°C

