



Analytical Industries Inc.
Advanced Instruments Inc.

GPR-1200-MS INTRINSICALLY SAFE SUB-PPM O₂ ANALYZER

ATEX certified portable sub-PPM oxygen analyzer, 0-1 PPM low range, measures O₂ concentrations from 10 PPB to 1000 PPM. Features certification to ATEX Directive 94/9/EC. Also available for general purpose service. The only truly portable sub-PPM analyzer available.

Features

- proprietary Pico-Ion oxygen sensor
- field proven reliability
- 36 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_{amb} -10°C to 45°C



TECHNICAL SPECIFICATIONS

*Accuracy:	< 2% of FS range under constant conditions	Analysis Ranges:	0-1, 0-10, 0-100 and 0-1000 PPM
Sensitivity:	<0.5% of lowest full scale range	Linearity:	>0.995 over all ranges
Application:	Oxygen analysis in N ₂ , Ar, He, H ₂ , mixed and CO ₂ gas streams	Approvals:	Ex ia IIB T4 Gb, T _{amb} -10°C to 45°C
Area Classification:	Class I, Division 1, Groups C, D	Calibration:	Certified span gas of O ₂ balance N ₂
Compensation:	Barometric pressure and temperature	Connections:	1/8" compression tube fittings
Controls:	Menu driven range selection, calibration and system functions	Display:	LCD 2.75 x 1.375"; resolution .001 PPM
Enclosure:	Painted aluminum, 8.6 x 9 x 3", 12 lbs.	Sample Flow:	Recommended flow rate 1-2 SCFH
LED Indicators:	LOW BATT (72 hr. warning); CHARGE mode	Signal Output:	0-1 VDC
Pressure:	Inlet – regulate to 5-30 psig; vent – atmosphere	Power:	Rechargeable battery, 30 day cycle, 8 hrs with pump
Recovery Time:	30 seconds in air to < 1 PPM in < 45 min on N ₂ purge	Response Time:	90% of final FS reading in 10 seconds
Sample System:	Flow control and 4-way sample/bypass valves; flow indicator	Wetted Parts	Stainless steel
Sensor Model:	GPR-12-2000MS	Expected Sensor Life:	36 months
Temp Range:	5°C to 45°C	Temp. Range:	12 months analyzer, 12 months sensor

*At constant temperature and pressure

Optional Equipment	
GPR-12-2000H	Sensor for gas mixtures containing H ₂ >1%
Sample System	Pressure regulator
Data Logger	Internal data logger