



## PI2-UHP-50 AND PI2-UHP-100 2ND GENERATION PPB O2 ANALYZER

PI2-UHP-50/100 PPB O2 analyzer, 0-50 PPB low range with LDL <0.1 PPB for checking purity of ultra-high purity inert gases in the semi-conductor industries, Features

- proprietary Pico-Ion O2 sensor
- LDL less than 0.1 PPB
- 15 months operating sensor life, no periodic maintenance
- integral temperature control heated enclosure
- menu driven controls
- fully automated auto-zero, auto-cal
- USB or RS-232 access
- integral data logger
- stainless steel all welded sample system



### TECHNICAL SPECIFICATIONS

<b>*Accuracy</b>	+/-3% of reading or 0.25 PPB at constant conditions	<b>Analysis:</b>	0-50 ppb, 0-1 ppm, 0-10, 0-100 ppm
<b>Application:</b>	Analysis in ultra-high purity inert gases and H2	<b>Area Classification:</b>	General purpose
<b>Alarms:</b>	2 user adjustable oxygen set-points, "weak sensor", power failure	<b>Calibration:</b>	Certified 5-8 ppm O2 balance N <sub>2</sub>
<b>Compensation:</b>	Barometric pressure and temperature	<b>LDL:</b>	< 0.1 PPB
<b>Controls:</b>	Menu driven range selection, calibration, alarm and system functions	<b>Data Acquisition:</b>	Selectable data point intervals
<b>Display:</b>	Graphical LCD 5 x 2.75; resolution 0.1 ppb	<b>Enclosure:</b>	Painted aluminum 13.9" x 9.9" x 13.4"
<b>Flow Rate:</b>	1-2 SCFH recommended	<b>Linearity:</b>	> .995 over all ranges
<b>Pressure:</b>	Inlet – 20-50 psig; vent – atmospheric	<b>Power:</b>	100-240 VAC
<b>Recovery Time:</b>	Exposure to 9 ppm for 1 min to less than 10 ppb in 15 minutes	<b>Response Time:</b>	90% of final FS reading < 60 seconds
<b>Sample System:</b>	Pressure regulator, Pneumatic valves, sample, span gas inlets, bypass and sensor isolation valves, integral zero scrubber. Face Seal gas connections.	<b>Connections:</b>	Sample and span inlet – 1/4" Face Seal, air inlet and sample vent – 1/4" compression fittings
<b>Sensor Model:</b>	GPR-13-2000UHP-2/2E	<b>Sensor Life:</b>	12 months at 25°C and 1 atm
<b>Signal Output:</b>	4-20 mA isolated, 0-5 V DC and 0-1 V DC	<b>Operating Range:</b>	5° to 45°C
<b>Warranty:</b>	12 months analyzer; 12 months sensor	<b>Wetted Parts:</b>	316L stainless steel

\*At constant temperature and pressure



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

**Optional Equipment**

**GPR-13-2000 UHP-H-2/2E**

Sensor for hydrogen and helium applications

**Mounting**

19 rack mount