

## GPR-1100

### ppm Portable Oxygen Analyzer

Designed for efficiency and agility, the GPR-1100 oxygen analyzer is the go-to solution for swift, point-to-point measurements for spot-checking ppm oxygen contamination in various industrial applications.

GPR-1100 is a reliable and compact analyzer. It features an LCD screen displaying O<sub>2</sub> concentration, and our range of electrochemical sensors allows for measurement with background gases containing hydrocarbons, acid gases or helium and hydrogen.

Our portable range of oxygen analyzers also offers an integrated data logging feature, with a memory token for straight-forward data transfer.



#### Highlights

- Wide variety of measurement ranges from 0...10 ppm to 0...1 %
- 0...1 V output
- Up to 30 days battery life
- Integrated data logging capability
- Sensor options for different background gases
- Quick disconnect fittings

#### Applications

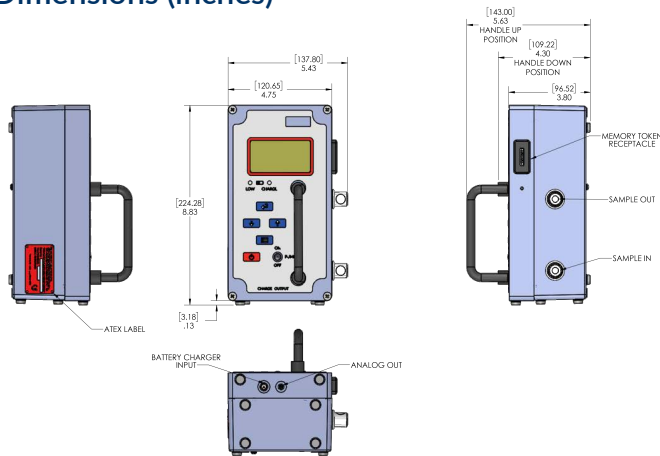
- Nitrogen generator validation
- Inertization and blanketing gas purity
- O<sub>2</sub> in pharmaceutical reactors and centrifuges
- Gas quality in steel production, heat-treatment furnaces and solder re-flow processes
- Gas purity of feed gases for food & beverage packaging and production, and N<sub>2</sub> generators
- Pipe purge (welding)

Technical Specifications

Sensor			
	GPR-12-333	GPR-12-333-H	XLT-12-333
Measurement Range	0...10, 0...100, 0...1,000 ppm <sub>v</sub> 0...1 %, 0...25 % (for calibration)		
Gas Compatibility	Inert gases	H <sub>2</sub>	Hydrocarbon and CO <sub>2</sub>
Accuracy	< 2 % of selected range at constant conditions		
Output Resolution	0.01 ppm <sub>v</sub>		
Lower Detection Limit (LDL)	0.05 ppm <sub>v</sub>		
Sample Flow Rate (application dependent)	1...2 SCFH (0.5...1 LPM)		
Pressure Range	5...30 psi (0.3...2 bar)		
Response Time (T <sub>90</sub> )	< 2 minutes		
Operating Temperature Range	+5...+45 °C (+41...113 °F)	+5...+45 °C (+41...113 °F)	-10...+45 °C (+14...113 °F)
Life Expectancy (application dependent)	24 months in 1000 ppm <sub>v</sub>	24 months in 1000 ppm <sub>v</sub>	Up to 24 months
Shelf Life	Up to 3 months		
Calibration Interval (application dependent)	Monthly (recommended)		
Analyzer			
Electrical			
Display	LCD		
Output Signal	0...1 V		
Power Supply (battery charger)	100...240 V AC		
Voltage Output (battery charger)	9 V DC (2 A)		
Power Requirement (battery charger)	18 W		
Battery Life	30 days		
Mechanical			
Ingress Protection	N/A		
Analyzer Housing Material	Painted aluminum		
Compliance			

All units:  
 Europe - EN 60079-0:2018, International - IEC 60079-1:2014  
 Hazardous Area units only:  
 ATEX - II 1 G Ex ia IIC T4 Ga T<sub>amb</sub> (-20 °C...+50 °C)  
 cMETus - Class I, Division 1, Groups A, B, C & D T4; Class I, Zone 0 AEx ia IIC Ga T<sub>amb</sub> (-20 °C...+50 °C)  
 IECEx - Ex ia IIC T4 Ga T<sub>amb</sub> (-20 °C...+50 °C)

Dimensions (inches)



**! CAUTION**

Analytical Instruments Inc (Aii) is part of the Process Sensing Technologies Group (PST). As customer applications are outside of PST control, the information provided is given without legal responsibility. Customers should test under their own conditions to ensure the equipment is suitable for the intended application(s).

**General Purpose Analyzer (Blue)**

Safe area use ONLY

**Hazardous Area Analyzer (Red)**

Certified for hazardous area use

We adopt a continuous development program which sometimes necessitates specification changes without notice. For technical assistance or enquiries about other options, please contact us here: [oxygen@processsensing.com](mailto:oxygen@processsensing.com).