

GPR-1200

ppm Portable Oxygen Analyzer

The GPR-1200 is meticulously engineered for precise trace oxygen measurements, enabling you to verify process or online instrumentation with unparalleled accuracy. Available in both General Purpose and Intrinsically Safe configurations, this essential device is also versatile, accommodating various electrochemical oxygen sensors to enable applications in inert, hydrocarbon, helium, hydrogen, mixed and acid (carbon dioxide) gas streams.

An integrated sample/bypass valve isolates the sensor for quicker measurement response and longer sensor life. Made to meet the most demanding requirements, the GPR-1200 oxygen analyzer will elevate your monitoring capabilities.



Highlights

- Wide variety of measurement ranges from 0...1000 ppm to 0...1 %
- 0...1 V output
- Up to 30 days battery life
- Integrated data logging of measurements
- Safe or Hazardous Area options
- Sensor options for different background gases
- Unique bypass valve

Applications

- Glovebox and isolator environment verification
- CO₂ purity
- Cylinder gas and bulk gas storage verification
- Validate inerting and blanketing of vessels, reactors and pipework
- Natural gas extraction, transmission and processing
- Hydrogen

Technical Specifications

Sensor			
	GPR-12-333	GPR-12-333-H	XLT-12-333
Measurement Range	0...10, 0...100, 0...1,000 ppm _v 0...1 %, 0...25 % (for calibration)		
Gas Compatibility	Inert gases	H ₂	Hydrocarbon and CO ₂
Accuracy	< 2 % of selected range at constant conditions		
Output Resolution	0.01 ppm _v		
Lower Detection Limit (LDL)	0.05 ppm _v		
Sample Flow Rate (application dependent)	1...2 SCFH (0.5...1 LPM)		
Pressure Range	5...30 psi (0.3...2 bar)		
Response Time (T ₉₀)	< 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 _v	24 months in 1000 ppm _v	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

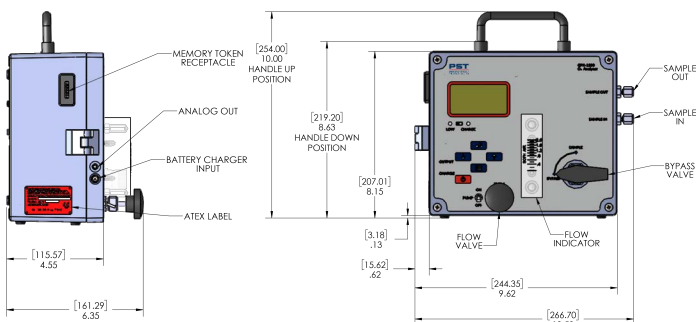
Hazardous Area units only:

ATEX - II 1 G Ex ia IIC T4 Ga T_{amb} (-20 °C...+50 °C)

cMETus - Class I, Division 1, Groups A, B, C & D T4; Class I, Zone 0 AEx ia IIC Ga T_{amb} (-20 °C...+50 °C)

IECEx - Ex ia IIC T4 Ga T_{amb} (-20 °C...+50 °C)

Dimensions (inches)



General Purpose Analyzer (Blue)



Safe area use ONLY

Hazardous Area Analyzer (Red)



Certified for hazardous area use

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).

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.