



GPR-1600 GENERAL PURPOSE PPM O₂ ANALYZER

GPR-1600 PPM O₂ analyzer 0-10 PPM low range, 0.05 PPM sensitivity, general purpose on-line analyzer that measures oxygen concentrations from low PPM to 1%.

Features

- an advanced galvanic oxygen sensor
- over 24 month operating life with no periodic maintenance
- menu driven controls
- integral 4-way Sample/Bypass valve, flow control/meter
- ambient temperature compensation
- two user field selectable oxygen alarms
- USB or RS232 data communication
- integral data logger

utilizing our advanced electrochemical oxygen sensor over a 24 month operating sensor life with no maintenance required, menu driven controls, and a stainless steel integral sample system with a 4-way Sample/Bypass valve that enables isolation of the sensor; a feature that brings the analyzer online and to a low PPM levels in minutes.



TECHNICAL SPECIFICATIONS

Accuracy:	+/-2% of FS range under constant conditions	Analysis Ranges:	0-10 PPM, 0-100 PPM, 0-1000 PPM, 0-1%, 0-25% FS
Applications:	Oxygen analysis in inert, hydrogen, mixed and CO ₂ gas streams	Approvals:	CE
Area Classification:	General purpose	Alarms:	2 adjustable relay contacts non-latching; "weak sensor" indicator; power fail; system fail
Calibration:	Certified gas of O ₂ balance N ₂	Compensation:	Barometric pressure and temperature
Connections:	1/4" compression tube fittings	Controls:	Menu driven range selection, calibration, alarm and system functions
Data Acquisition:	Selectable data point intervals	Display:	Graphical LCD 5 x 2.75; resolution .01 PPM
Enclosure:	Painted aluminum 7.5" x 10.8" x 12.25" panel mount	Flow Sensitivity:	None between 1-5 SCFH, 2 SCFH recommended
Linearity:	> .995 over all ranges	Pressure:	Inlet – regulate to 5-30 psig, max 150 psig; vent – atmosphere
Power:	110 or 220 VAC, specify with optional heater	Range ID:	1-5V output
Recovery Time:	60 seconds in air to < 10 ppm in < 1 hr on N ₂ purge	Response Time:	90% of final FS reading < 10 seconds
Sample System:	Wetted parts: 316 SS, flow control, 4-way sample/bypass valves and flow indicator	Sensitivity:	< 0.05PPM
Sensor Model:	GPR-12-333 – requires no maintenance	Sensor Life:	24 months at 25°C and 1 atm; average O ₂ < 1000 PPM
Signal Output:	4-20mA isolated and 0-1VDC	Temp. Range:	-10°C to 45°C
Warranty:	12 months analyzer; 12 months sensor		

*At constant temperature and pressure



Analytical Industries Inc.
Advanced Instruments Inc.

Optional Equipment

XLT-12-333

Sensor for gas streams containing CO₂ >0.5%

Heater System

PID Temperature Controlled Heating System for applications with varying ambient temperature conditions

Sample System

Coalescing filter, pressure regulator, sample pump