

GPR-x500 ppm and % Oxygen Analyzers

Electrochemical Sensor

GPR-x500 analyzers are single-channel, and engineered for precise trace oxygen analysis and percentage oxygen measurement in clean gas. Sensor options enhance this robust analyzer's capabilities for measurement in gases such as carbon dioxide, helium and hydrogen. Hazardous and Safe Area-approved, GPR-x500 is built for industries with stringent safety requirements.

Leveraging established technology, our unique advanced sensors have been developed and proven over three decades, and are optimized for use with our analyzers.

We offer seamless integration of Human-Machine Interface (HMI) across our online and portable analyzers. This intuitive concept ensures effortless switching between instruments. Our analyzers are streamlined, user-friendly, and built for accuracy because ease-of-use matters as much as results.





GPR-2500 General Purpose and GPR-2500 Hazardous Area analyzers pictured. Customized sample systems are also available.

Highlights

- Wide variety of measurement ranges from 0...10 ppm to 0...25 %
- Sensor options for measurement in He, CO₂ or H₂ gases
- Hazardous area-rated for key global markets
- Gas temperature compensation
- Loop-powered configurations

Applications

- Inertization and blanketing gases
- Natural gas quality
- O₂ in pharmaceutical reactors and centrifuges
- Gas quality in steel production, heat-treatment furnaces and solder re-flow processes
- Pure gas quality on feed gases for food & beverage packaging and production, and N₂ generators

Technical Specifications

Sensor				
Electrochemical	GPR-1500		GPR-2500	
	ppm		%	
Model Number	GPR-12-333	XLT-12-333	GPR-11-60	XLT-11-24
	GPR-12-333-LD GPR-12-333-H	XLT-12-333-LD	GPR-11-60-LD	XLT-11-24-LD
Measuring Range	010, 0100, 01	1000 ppm _V , 01 % 01, 05, 010, 025 %		10. 025 %
	025 % (calibration only)		,,	
Output Resolution	0.01		0.001 %	
Lower Detection Limit (LDL)		0.05 ppm _V 0.01 %		1 %
Sample Flow Rate (application	0.031	· ·		
dependent)	12 SCFH (0.51 LPM)			
Pressure Range	530 psi (0.42.1 bar)			
Response Time (T90)	< 2 minutes		< 30 seconds	
Operating Temperature Range	+5 °C+45 °C	-10 °C+45 °C	+5 °C+45 °C	-10 °C+45 °C
	(+41 °F+113 °F)	(+14 °F+113 °F)	(+41 °F+113 °F)	(+14 °F+113 °F)
Humidity	080 %rh non-condensing			
Life Expectancy (application	24 months in < 1000 ppm _V		60 months in air	24 months in air
dependent)				
Calibration Interval (application	30 days			
dependent)				
Analyzer				
Electrical				
Display	LCD			
Output Signal	420 mA			
Power Supply	1824 V DC			
Maximum Power Consumption	1.8 W			
Mechanical				
Ingress Protection	NEMA 3R			
Analyzer Housing Material	Fiberglass and painted aluminum			
Mounting	Wall / vertical surface			
Compliance				
Complies with EMC Directive: 2014				
Standard Details: EN 50270:2015,	EN 61000-4-2:2009			

UL/IEC/EN 61010-1

Hazardous Area Certification

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

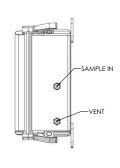
IECEx: Ex ia IIC T4 Ga T_{amb} (-20 °C...+50 °C)

Dimensions in inches [mm]

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[112.27] 4.42	

GPR-1500 Hazardous Area analyzer illustrated

Process Sensing Technologies Group Distributed by



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[7.92] 4 X Ø.31

[227.13]

[254.00] 10.00

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