

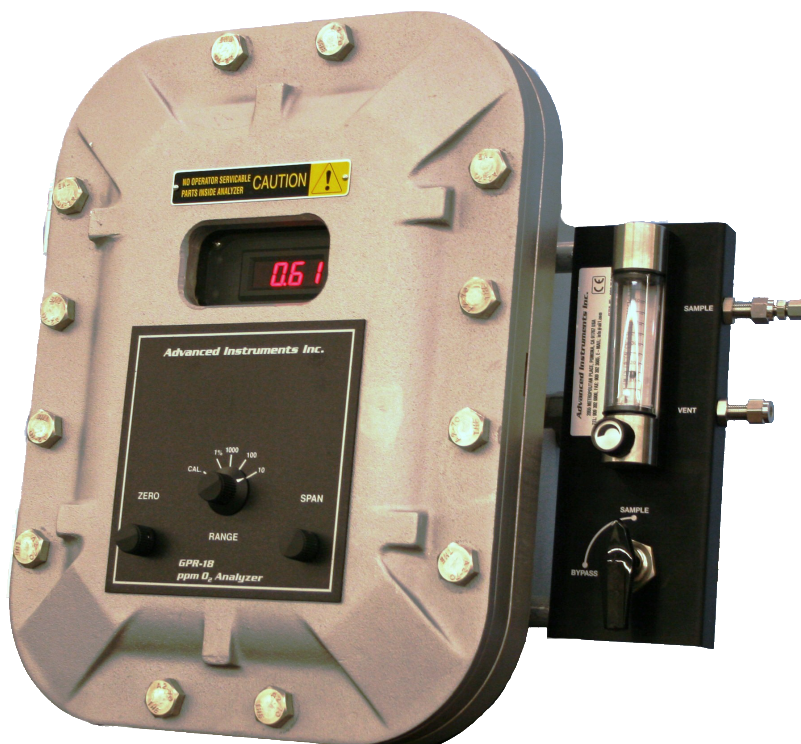
Oxygen Analyzer

PST
PROCESS SENSING
TECHNOLOGIES

**Analytical
Industries Inc**
A PST BRAND

GPR-x8


Explosion-Proof Oxygen Analyzers



Full Featured O2 Analyzers with Advanced Galvanic Sensor Technology


3 Analyzers PPB, PPM, %
1 State of the Art Platform
Sensitivity 0.5% Full Scale
4-20 mA Signal Output
2 Field Adjustable Alarms
SS Wetted Parts
Sample / Bypass Valve
Flame Arrestors
Breather Device

ATEX Certificate: CML 23ATEX1357X
UKEX Certificate: CML 23 UKEX1358X
IECEx Certificate: IECEx CML 23.0122X

II 2 G 
Ex db IIB or IIB+H2 T6 Gb

ISO 9001 : 2015 Certified

Technical Specifications

	GPR-18 MS				GPR-18				GPR-28			
Analysis Ranges:	0-1 , 0-10, 0-100, 0-1000 PPM FS				0-10, 0-100, 0-1000 PPM, 0-1% FS 0-25% (Cal Only)				0-1, 0-5, 0-10, 0-25% FS			
Application:	10 PPB to 1000 PPM oxygen in inert gases streams				50 PPB to 1% oxygen in hydrocarbon, He, H ₂ , mixed and acid (CO ₂) gas streams (a)				0.05% to 21% oxygen in hydrocarbon, He, H ₂ , mixed and acid (CO ₂) gas streams (a)			
Accuracy:	± 1% of FS range under constant conditions											
Sensitivity:	< 0.5% of FS range											
Linearity:	< 1% over all ranges											
Display:	3-1/2 digit bright red LCD; resolution 0.001 PPM											
Alarms:	2 adjustable form C relay contacts non-latching; sensor and power failure											
Signal Output:	0-1V and 4-20mA											
Sample Pressure:	5-30 psig											
Flow Rate:	1.5-2 SCFH (700-950ml/min)											
Sensor Model:	GPR-12-2000-MSE				GPR-12-333 (a)				GPR-11-60 (b)			
Response Time:	< 20 seconds 90% of final FS reading				< 10 seconds 90% of final FS reading							
Recovery Time:	O ₂ Level	Duration	O2 Tar- get	Recovery on N2	O2 Level	Duration	O2 Tar- get	Recovery on N2	O2 Level	Duration	O2 Tar- get	Recovery on N2
	Air	30 sec	1 PPM	45 min	Air	2 min	10 PPM	60 min *	Air	2 min	0.1% PPM	< 30 sec
	9 PPB	2 min	10 PPB	10 min	Air	2 min	1 PPM	20 min **				
	1 PPM	5 min	10 PPB	15 min	* Installation ** In service for 2 weeks at 1 PPM							
Calibration:	1 month interval using certified gas of 7.5 - 9 PPM O ₂ balance N ₂				1 month interval using certified gas of 75 - 90 PPM O ₂ balance N ₂ or 20.9% air				1 month interval using 20.9% air			
Sensor Life:	12-18 months in < 100 PPM O2 at 25°C and 1 atm				24 months in < 1000 PPM O2 at 25°C and 1 atm				60 months in Air at 25°C and 1 atm			
Compensation:	Temperature											
Sample System:	Flow control and bypass valves; flow indicator								Flowmeter with integral valve			
Connections:	1/4" compression tube fittings											
Controls:	Explosion proof actuators for range selection, zero and span calibration adjustments											
Wetted Parts:	300 series stainless steel											
Operating Temp. Range:	Sensor 0...45°C (32...90°F)				Sensor GPR 0...45°C (32...90°F), XLT -10...+45°C (14...90°F)							
	Enclosure -20...+60°C (-4...+140°F)											
Enclosure:	16 x 18 x 11" (406 x 457 x 280mm) Wall mount, 70lbs (31.8 Kg) Unpainted aluminum											
Power:	Specify 100/120 or 220/240 VAC											
ATEX & UKEX/IECEX Classification:	 II 2 G Ex db IIB or IIB+H2 T6 Gb // Ex db IIB or IIB+H2 T6 Gb											
Build Options:	Sample conditioning systems											
	Temperature controlled heater system											
					(a) use XLT-12-333 for gases with > 0.5% CO ₂ present				(b) use XLT-11-24 for gases with > 0.5% CO ₂ present			

! 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.