GPR-1500 Series

Trace Oxygen Analyzers for General Purpose and Hazardous Areas



The GPR-1500 series from AII offers a flexible platform with two types of enclosure, 4 or 5 ranges and General Purpose or ATEX certified units available.

All units are capable of auto-ranging or being manually locked on a single range.

Additional features included in the analyzer are mains power, barometric pressure compensation and two user configurable alarms.

Highlights

- 0-10*, 0-100, 0-1000, 1% and 0-25% (for calibration)
- ATEX certified to EX II 2G EX ia IIB T4
- 12 to 24 V DC, loop powered transmitters
- Sensor life, warranty and performance is unmatched
- · Temperature compensation as standard
- Stainless steel wetted parts
- · Excellent operating temperature, -20°C
- · Sensitivity 0.5% full scale

Applications

- Oxygen analysis in inert, helium, mixed and acid (CO₂)
- Low level ppm O₂ in light bulb filling

Technical Specifications

Technical Sp	ecn	ications		
		Common Specifications		
Accuracy		<2% of full scale range under constant conditions		
Analysis ranges		0-10*, 0-100, 0-1000, 1% and 0-25% (for calibration)		
Approvals		See individual models on reverse		
Area classification		General Purpose or ATEX approved**		
Calibration		3 month interval using certified span gas (preferred for fastest online time) or air with $\rm O_2$ value approximating 80% of full scale range balance $\rm N_2$		
Compensation		Temperature compensation as standard; barometric pressure compensation on analyzer versions (models denoted with an 'a')		
Connections		1/8" compression tube fittings		
Controls		Water resistant keypad; menu driven range selection, calibration and system functions		
Display		Graphical LCD 70 x 35mm; resolution .01 ppm		
Enclosure		See individual models on reverse for material, size and weight		
Flow sensitivity		None between 0.2 to 2.4 NI/min, 0.5 to 0.95 NI/min recommended		
Linearity		±1% of full scale		
	nlet /ent	Regulate to 0.3 to 2 barg to deliver 0.5 to 0.9 NI/min flow to transmitter Atmospheric		
Power		12 to 24 V DC, loop powered for transmitters; 12 to 28 V DC or 110 to 220 V AC for analyzers		
Response time		90% of final full scale reading in 10 seconds		
Sensitivity		<0.5% of full scale range		
Sensor model		See individual model numbers		
Sensor life		24 months in <1000 ppm $\rm O_2$ @ +25°C and 1 atmosphere		
Signal output		4-20 mA		
Temperature range		-10 to +45°C (GPR sensor) -20 to +45°C (XLT sensor)		
Warranty		12 months analyzer, 12 months sensor		
Wetted parts		Stainless steel		
Optional Equipment				
Sample conditioning - pump, filter, scrubbers - contact Michell Instruments				

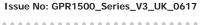
^{**}See certification box

ATEX Certified - Directive 94/9/EC Examination Cert: INERIS 08ATEX0036



II 2 G Ex ib IIB T4 T_{amb} -20°C to +50°C





^{*}Not available with 4 range models

GPR-1500

Trace Oxygen Analyzers for General Purpose and Hazardous Areas

Every GPR-1500 from AII has the following features as standard:

- 4 or 5 ranges from 0-10*, 0-100, 0-1000, 1% and 0-25% (for calibration)
- Standard sensor models are designated GPR, for gases containing >0.5% CO₂ the XLT sensor should be selected
- 12 to 24 V DC loop powered
- Temperature compensation (T)
- · Barometric pressure (B) on analyzer models only
- · 3 month calibration intervals
- Choice of sensors for standard gas streams containing >0.5% CO₂ (XLT version)
- · 4 button user interface with LCD display
- *Not available with 4 range models

Model	Ranges	Case type	Power	Alarms	Compensation	Sensor type
GPR-1500	5	1	12 to 24 V DC	None	Т	GPR-12-333 or XLT-12-333*
GPR-1500D	4	1	12 to 24 V DC	None	Т	GPR-12-100-M or XLT-12-100-M
GPR-1500N	5	2	12 to 24 V DC	None	Т	GPR-12-333 or XLT-12-333*
GPR-1500DN	4	2	12 to 24 V DC	None	Т	GPR-12-100-M or XLT-12-100-M
GPR-1500A	5	2	12 to 28 V DC or 110 to 220 V AC	2 user configurable alarms, field programmable***	T & B	GPR-12-333 or XLT-12-333*
GPR-1500DA	4	2	12 to 28 V DC or 110 to 220 V AC	2 user configurable alarms, field programmable***	T & B	GPR-12-100-M or XLT-12-100-M
GPR-1500 ATEX	5	1	12 to 24 V DC	None	Т	GPR-12-333 or XLT-12-333*
GPR-1500N ATEX	5	2	12 to 24 V DC	None	Т	GPR-12-333 or XLT-12-333*
GPR-1500D ATEX	4	1	12 to 24 V DC	None	Т	GPR-12-100-M or XLT-12-100-M
GPR-1500DN ATEX	4	2	12 to 24 V DC	None	Т	GPR-12-100-M or XLT-12-100-M

^{***}Alarms are magnetic coils rated 3A @ 100 V A C, field programmable alarm time delays, alarm bypass for calibration and system fail alarm

Case Type 1



Technical Specifications

Material	Painted aluminium
Weight	3.6kg
Dimensions	23 x 10 x 8cm (h x w x d)

Case Type 2



Technical Specifications

Material	Fiberglass NEMA 4X
Weight	4.5kg
Dimensions	21 x 17 x 11cm (h x w x d)

Please note: Michell Instruments adopts a continuous development program which sometimes necessitates specification changes without notice. Please contact us for latest version.

