

High Purity Oxygen Analyzers

Breakthrough Galvanic Sensor Technology

0.1% Accuracy with 0.01% Resolution

90-100% Suppressed Range

Plus 80-100%, 50-100% and 0-100% Ranges

Meets FDA Standards for Medical Grade Oxygen

24 Month Sensor Life in 100% Pure Oxygen

Integral Barometric Pressure Compensation

And Temperature Control Minimize Drift



GPR-31W

ISO 9001 Certified



GPR-31



Technical Specifications

Analysis ranges (standard): 0-100% and suppressed ranges 50-100%, 80-100%, 90-100%

Accuracy (the greater of):

At constant temperature: $\pm 2\%$ of reading or $\pm 0.5\%$ FS ($\pm 0.1\%$ when calibrated with 95-100% oxygen)

Over operating range: $\pm 5\%$ of reading or $\pm 1.25\%$ FS

Sensitivity: 0.1% oxygen

Resolution of display: 0.01%

Operating range: $+5^{\circ}\text{C}$ to $+45^{\circ}\text{C}$

Response time 90% of full scale: 13 seconds

Drift: Less than 0.11% of reading per $^{\circ}\text{C}$

Calibration: Monthly using certified gas approximating 80% of range (for optimum accuracy 95-100% O_2)

Application: Oxygen purity and enriched oxygen levels

Sensor: GPR-11-120-OP

Expected life: 2 yrs. in 100% O_2 at 25°C , 760mm Hg

Warranty: 1 year analyzer and sensor

Configuration

CSA/NRTL (UL) approved; CE certified

Area classification: General purpose

Weight: 20 pounds

Sample System

Integral barometric pressure compensation and temperature controlled heater system - insulation, PID controller, heater runaway protection

Wetted parts: Stainless steel

Line pressure: 5-100 psig

Flow control: Indicator and metering valve, recommended flowrate 2 SCFH

Connections: 1/8" inlet, 1/4" vent compression type

Electrical Features

Display: 4-1/2 digit bright red backlit LCD

Signal outputs: 0-1V and 4-20mA isolated

Alarms: Two adjustable SPDT Form C nonlatching relays; bypass switch; Low, Low configuration

Sensor failure alarm: Voltage output

Power failure alarm: Relay contact

Zero: Electronic 4-20mA potentiometer

Range ID: Corresponding voltage output

Power: 100/110 or 220/240VAC

Optional Equipment

Rack / panel mount, dimensions 19x6x12"

General purpose (dimensions 12x12x8"), NEMA 4, 4X and outdoor wall mount enclosures

User specified measuring and calibration ranges

Loss of flow failure alarm