

Advanced Instruments Inc.

Gas analysis solutions through advanced analyzer and sensor technology

Technical Specifications

Accuracy: < 1% of FS range under constant conditions

Analysis: 0-10 ppm, 0-100, 0-1000 ppm, 0-1%, 0-25% FS ranges;

auto-ranging or manually lock on single range

Application: Oxygen analysis from 100 ppb to 1% in inert, helium,

hydrogen, mixed and acid (CO₂) gas streams

Approvals: CE / ATEX; Intrinsic Safety

Area Classification: Meets recognized intrinsic safety standards for use in Class

1, Division 1, Group A-D hazardous areas (see Options)

Alarms: None

Calibration: Certified gas of O₂ balance N₂ approximating 80% of range

above analysis range recommended for optimum results

Compensation: Barometric pressure and temperature

Connections: 1/8" compression tube fittings

Controls: Water resistant keypad; menu driven range selection,

calibration and system functions

Display: Graphical LCD 2.75 x 1.375; resolution .01 ppm; displays

real time ambient temperature and pressure

Enclosure: Painted aluminum NEMA 4X, 8.6x9x3", 12 lbs.
Flow Sensitivity: None between 0.5-5 SCFH, 2 SCFH recommended

LED Indicators: LOW BATT (72 hr. warning); CHARGE mode

Linearity: > .995 over all ranges

Pressure: Inlet - regulate to 5-30 psig; vent - atmospheric

Power: Rechargeable battery, 60 day duty cycle (pump 1 day)

Recovery Time: 60 seconds in air to < 10 ppm in < 1 hr on N_2 purge

Response Time: 90% of final FS reading in 10 seconds

Sample System: Flow control, bypass and isolation valves; flow indicator

Sensitivity: < 0.5% of FS range

Sensor Model: GPR-12-333 - requires no maintenance

Sensor Life: 24 months at 25°C and 1 atm; average $O_2 < 1,000$ ppm

Signal Output: 0-1V

Temp. Range: 5° to 45°C (GPR sensor), -20° to 45°C (XLT sensor)

Warranty: 12 months analyzer; 12 months sensor

Wetted Parts: Stainless steel

Optional Equipment

XLT-12-333 sensor with > 0.5% CO₂ present

Integral sampling pump - general purpose or intrinsically safe designs

Carrying case with custom foam insert

Sample conditioning accessories - contact factory



GPR-1200 Portable ppm 0₂ Analyzer

Advanced Sensor Technology
Accuracy < 1% F5 Range
Sensitivity < 0.5% F5 Range
Fast Recovery to < 10 ppm
24 Month Expected Life
No Maintenance
Compatible in 0-100% CO₂
Intrinsically Safe Design

5 Standard Analysis Ranges
Auto-ranging or Manual
55 Bypass Sample System

Water Resistant Enclosure Certified ISO 9001 QA System



