



## MODEL 1012

Portable PPM O<sub>2</sub> Analyzer

- **Measurement Range:** User selectable from 0-5 PPM - 21%
- **Display:** Bright 2-Line LED
- **Output Lock:** 0-1V locked on user selectable range.
- **Accuracy:** < 2% of FS at constant operating conditions
- **Linearity:** +/-1% after calibration
- **Temperature Compensation:** Fine tune on low PPM range for enhanced stability
- **Barometric Pressure Compensation:** Optional
- **Calibration Method:** Certified Span Gas or air, Recommended Calibration interval 30 days
- **Gas Connections:** 1/8" Quick Connect Tube Fittings, Inlet and Outlet
- **Menu Controls:** Membrane Switch, Menu driven selection of Analysis Range, Display Resolution, Signal Filter Strength, Fine Tune Temp Compensation, System Functions

### Optional Accessories/Equipment

AST-100 sensor for analysis above 100 PPM  
AST-333-Z for analysis of gas stream containing CO<sub>2</sub>

\*Specification validated during desing, subject to change without notice

### Advanced Sensor Technology

- ▶ Proprietary Electrolyte Formulation and Anode Material
- ▶ Electro-etched Smooth Cathode
- ▶ Recovery From Air to 10 PPM in under 40 Minutes
- ▶ Extended Operating Temperature Range -10°C (-4°F)
- ▶ Z-Series sensor Compatibility with 0-100% CO<sub>2</sub>
- ▶ Fast Sensor Response, no Routine Sensor Maintenance Needed

### Key Transmitter Features

- ▶ User Selectable Range From 0-5 PPM to 25%
- ▶ Output Locking on Selected Range
- ▶ 0-1 VDC Full Scale Signal Output
- ▶ Fine Tuned Temperature Compensation
- ▶ Barometric Pressure Compensation
- ▶ Intrinsically Safe Design, complies with Class I Div I Group IIC

### Power

6.5V Rechargeable Battery  
Design Complies with Intrinsic Safety

- **Sensor:** AST-333 for inert gas analysis
- **Response Time:** 90% of Step Change in <30 sec
- **Repeatability:** +/-1% over all ranges
- **Recommended Sample Flow Rate:** 1-2 SCFH, vent to atmosphere
- **Sample System Included:** SS 316 Sensor Housing with Compressing Tube Fittings Gas Connectors
- **Sensor Model:** AST-333 inert gases, AST-333Z for gases containing more than 0.5% CO<sub>2</sub>
- **Expected Sensor Life:** 24 months @ 25°C and 1 atm
- **Battery Life :** 30 days continuous on a single charge
- **Operating Temp:** Range: 5°C to 45°C
- **Enclosure:** IP67 Painted Aluminum 7.3" x 5.3" x 3.4"
- **Warranty:** 12 months transmitter; 12 months sensor

### ISO 9001:2015 Quality System

(909) 517 0037

info@appliedsensing.com

www.appliedsensing.com