



MODEL 111 SERIES PERCENT OXYGEN

PORTABLE PERCENT OXYGEN ANALYSIS FOR NON-FLAMMABLE GASES

The **MODEL 111** is the ideal solution for spot-checking percent oxygen measurements in non-flammable gas samples. It utilizes a long-life zirconium oxide sensor that delivers stable readings – even in the presence of temperature or barometric pressure changes. The Analyzer can connect to the COMMAND CENTER software to access data logging functionality and is available in 3 configurations (positive pressure samples, atmospheric or vacuum samples, and atmospheric or vacuum samples in Class I, Div 2, Group C,D areas).

IDEAL FOR NON-FLAMMABLE GASES

The **MODEL 111** Portable Percent Oxygen Analyzer can handle non flammable samples and is available in 3 configurations: base model, sample pump model and sample pump model for hazardous areas. The Analyzer is used in many applications, including those used for nitrogen purity, inert gas blanketing and oxygen purity..

ZIRCONIUM OXIDE SENSOR TECHNOLOGY

AMI's zirconium oxide sensors are an extremely stable, have a very long service life, and are not affected by barometric or temperature changes. They are an excellent option for measuring percent levels of oxygen in inert atmospheres, such as the amount of oxygen in the air of an enclosed space. Additionally, these sensors last for many years and require minimal calibration

FULLY OF STANDARD FEATURES

The **MODEL 111** Portable Percent Oxygen Analyzer can connect with the COMMAND CENTER software to access advanced features, including automatic data logging that provides detailed time-stamped records of O₂ measurement, temperature, supply voltage and power brown-out history.

TRULY PORTABLE AND DESIGNED FOR THE FIELD

Starting at 5 lbs (7.3 kg), the **MODEL 111** is the smallest, lightest, fastest and most accurate portable Percent Oxygen Analyzer in the industry.

COMMON APPLICATIONS

- ▶ AIR SEPARATION
- ▶ AEROSPACE
- ▶ INDUSTRIAL PROCESSING

MODEL 111

MODEL 111
DESIGNED FOR
POSITIVE PRESSURE
SAMPLES

MODEL 111P
INTEGRAL SAMPLE PUMP FOR
ATMOSPHERIC PRESSURE OR
VACUUM SAMPLES

MODEL 111B
INTEGRAL SAMPLE PUMP FOR
ATMOSPHERIC PRESSURE OR
VACUUM SAMPLES
IN HAZARDOUS AREAS

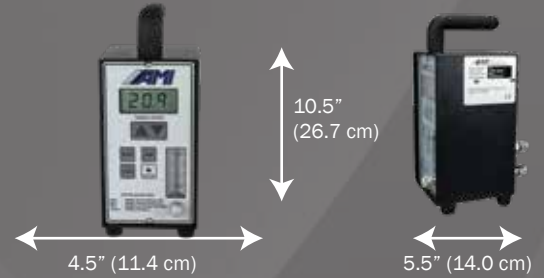
PHYSICAL & ELECTRICAL SPECIFICATIONS

WEIGHT		GAS CONNECTIONS	WETTED PARTS
MODEL 111	MODEL 111P/B		
5 lbs (2.3 kg)	6 lbs (2.7 kg)	¼" 316 S.S. compression fittings	316 S.S. fittings, anodized aluminum cell block, acrylic flow meter & O-rings (Viton)

POWER

115/230VAC to 12VDC Battery Charger. Rechargeable NiCad batteries

MODEL 111	MODEL 111P	MODEL 111B
8 hours continuous use	1 hour continuous use	1 hour continuous use



Note: 2-year Warranty for Parts & Labor for any defects in materials or workmanship. 2-year Warranty for Zirconium oxide sensors

OPERATIONAL SPECIFICATIONS

OUTPUT RANGES (USER SELECTABLE)		AMBIENT OPERATIONAL TEMPERATURE	FLOW RATE (RECOMMENDED)	INLET GAS PRESSURE		
STANDARD	OPTIONAL			MODEL 111	MODEL 111P	MODEL 111B
0 – 1.0% 0 – 5.0% 0 – 10.0% 0 – 25.0%	0 – 50.0% 0 – 95.0%	0°F to 130°F (18°C to 54°C)	0.1 to 2.0 SCFH (0.05 – 1.0 Lpm)	0.5 – 100 psig (0.03 – 6.9 bar)	-14 in Hg – 10 psig (0.03 – 0.7 bar)	-14 in Hg – 10 psig (0.03 – 0.7 bar)

ANALYZER PERFORMANCE SPECIFICATIONS

90% FULL SCALE RESPONSE TIMES FOR SPECIFIC RANGES		REPEATABILITY	APPROVALS		
0 – 25%	0 – 95%		MODEL 111	MODEL 111P	MODEL 111B
< 12 sec	<12 sec	±0.1% of range or ±0.1% of oxygen, whichever is greater	Meets UL Requirements (EN 61326-1). Has CE Mark	Meets UL Requirements (EN 61326-1). Has CE Mark	Designed to meet Class 1, Div 2, Groups C,D

ANALYZER KEY FEATURES

ZIRCONIUM OXIDE SENSOR	10-year life expectancy
COMMAND CENTER	Software that works across AMI's Analyzers and gives users access to advanced functions: <ul style="list-style-type: none"> ▶ Error Status Display ▶ Calibration Details ▶ Data Logger with Adjustable Interval Setting
ACCESSORIES	<ul style="list-style-type: none"> ▶ Protective Carrying Case ▶ Sample Tubing

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