



MODEL 1000BX

PORTABLE OXYGEN ANALYZER

INDUSTRY'S #1 HANDHELD O₂ ANALYZER

The **MODEL 1000BX** Portable Oxygen Analyzer is the undisputed leader when measuring trace and percent levels of oxygen in a variety of gas streams. Proprietary innovations and useful features are packed into a compact, rugged design. Topping the list is AMI's proprietary ELIMINATOR CELL BLOCK and sensor combination that provides an incredibly rapid and reliable O₂ measurement. It also comes loaded with a full suite of other advanced features like **automatic data logging**, a large, easy to read **backlit display**, **auto-ranging** between ppm and percent level measurements, and an extremely **long run time** from its rechargeable battery pack. The easy-to-use, handheld design allows quick and accurate oxygen measurements wherever and whenever you have a need.

THE ELIMINATOR CELL BLOCK ADVANTAGE

The proprietary ELIMINATOR CELL BLOCK provides a complete sample system, flow-efficient sensor pocket, and pressure sensor all within a single metallic block. The unique 4-way valve allows the user to purge the sample lines with process gas while bypassing the oxygen sensor. A simple 90° rotation of the valve allows sample gas to flow through the sensor for a rapid, accurate measurement of oxygen levels in the sample gas. The ELIMINATOR CELL BLOCK also provides the user with direct front panel access to replace the sensor and the ability to air calibrate the analyzer with no tools.

DESIGNED TO BE ON THE MOVE

At just 6 pounds (2.7 kg), the **MODEL 1000BX** is compact and lightweight, offering easy measurements when on the move. The rechargeable battery provides 25 days of operational life for minimal downtime. It also features a rugged outer protective covering over a steel case to keep the analyzer safe in the field.

DATA LOGGING CONVENIENCE WHEN SEARCHING FOR OXYGEN

The data logging feature of the **MODEL 1000BX** serves as a critical tool whether searching for hard-to-find oxygen spikes in the field or for spot checking measurements at multiple locations. The long battery life allows for extended recording measurements at a single installation over an prolonged period. All data can be accessed with AMI's Command Center software, included with every analyzer.

COMMON APPLICATIONS

- NATURAL GAS
- BIOGAS AND RNG
- INERTING
- AIR SEPARATION
- AEROSPACE

MODEL 1000B X

PHYSICAL & ELECTRICAL SPECIFICATIONS

WEIGHT	GAS CONNECTIONS	WETTED PARTS
6 lbs. (2.7 kg)	Input: Female quick disconnect fitting. Supplied with mating male quick disconnect fitting coupled to ¼" compression fitting. Exhaust: Male barb fitting for ¼" flexible tubing.	316 stainless-steel fittings, electroless nickel-plated cell block, gold-plated contacts, acrylic flow meter & Viton o-rings (Kalrez or Buna-N optional)
POWER		
Rechargeable Nickel Cadmium Batteries via USB Type C 25 days of continuous operation on full charge		



OPERATIONAL SPECIFICATIONS

AMBIENT OPERATIONAL TEMPERATURE	FLOW RATE (RECOMMEND)	INLET GAS PRESSURE
25 °F to 115 °F (-3.9 °C to 46 °C)	0.1 to 2.0 SCFH (0.05 - 1.0 lpm)	0.5 - 150 psig (0.03 - 10.3 bar)

NOTE: 2-year Warranty for any defects in materials or workmanship. 6-month Warranty for oxygen sensors

SENSOR & ANALYZER PERFORMANCE SPECIFICATIONS

T-2 SENSOR	T-4 SENSOR	P-3 SENSOR	P-5 SENSOR	APPROVALS
Linear Range 0 to 10,000 ppm Resolution 0.05 ppm Special Conditions <10 ppm H ₂ S, Up to 50% CO ₂	Linear Range 0 to 10,000 ppm Resolution 0.05 ppm Special Conditions <500 ppm H ₂ S, Up to 50% CO ₂	Linear Range 0 to 25% Resolution 100 ppm Special Conditions Up to 100% CO ₂	Linear Range 0 to 25% Resolution 100 ppm Special Conditions <500 ppm H ₂ S, Up to 100% CO ₂	CSA: Class I, Division 1, Groups B-D, T4 Class I, Zone 0, AEx ia IIB+H2 T4 Ga Ex ia IIB+H2 T4 Ga -3.9 °C ≤ Tamb ≤ +46.1 °C IECEx: Ex ia IIB+H2 T4 Ga -3.9 °C ≤ Tamb ≤ +46.1 °C ATEX: Ⓜ II 1 G Ex ia IIB+H2 T4 Ga -3.9 °C ≤ Tamb ≤ +46.1 °C
90% UPSCALE RESPONSE TIMES	REPEATABILITY	ACCURACY		
<25 sec for 0 to 10 ppm <10 sec for 10 ppm to 25%	±1% of reading or ±0.2 ppm, whichever is greater	±1% of reading or ±1 ppm, whichever is greater		

ANALYZER KEY FEATURES

ELIMINATOR CELL BLOCK	Contains a Complete Sample System with all components fully integrated, including the flow meter, metering valve, 4-way Selection (ON/OFF) Valve, and 0-150 psig gas inlet pressure sensor	
ANALYZER DISPLAY	Easy-to-read backlit display with oxygen measurement, inlet pressure, temperature, and battery charge	
COMMAND CENTER SOFTWARE	<ul style="list-style-type: none"> - Calibration details - Security settings - Power-up history 	<ul style="list-style-type: none"> - Data logger recording O₂ measurements, date/time, temperature, battery voltage
OPTIONAL ACCESSORIES	<ul style="list-style-type: none"> - Carrying case - Flexible high pressure sample tubing - Replacement oxygen sensors 	<ul style="list-style-type: none"> - Demister - Analyzer Guardian

15501 Red Hill Avenue, Suite 100 Tustin, CA 92780 USA
www.amio2.com | Tel: 1.714.848.5533 | Email: sales@amio2.com

1000BX en 2026.03, Copyright © Advanced Micro Instruments® 2026

This data sheet is a general presentation. It does not provide a warranty or guarantee of any kind. Please contact us for a description of the warranties and guarantees offered with our products. Directions for use and safety will be given separately. All information herein is subject to change without notice.

AMI
ADVANCED MICRO INSTRUMENTS
An ENPRO Company