

ADVANCED MICRO INSTRUMENTS
An ENPRO Company

MODEL 2010BX
TRACE OXYGEN

BEST-IN-CLASS TRACE O_2 ANALYZER

The **MODEL 2010BX** is AMI's most advanced Trace Oxygen Analyzer. This ne**X**t generation unit combines patented technologies and superior design to deliver unsurpassed performance and reliability while keeping costs low. The **MODEL 2010BX** is the #1 choice among engineers and measurement technicians.

ELIMINATOR CELL BLOCK FOR A LEAK-FREE DESIGN

The patented design removes leak-prone compression fittings by combining all of the critical sample handling components, including a flow meter, metering valve, 3-way gas control valve, sensor pocket and pressure sensor, into one solid cross drilled block. The flow efficient design results in up to 400% faster measurement response time.

COMMON APPLICATIONS

- NATURAL GAS
- AIR SEPARATION
- AEROSPACE

DESIGNED FOR THE USER

This virtually maintenance-free Analyzer with front-loading O_2 sensor, intuitive controls and compact size make the **MODEL 2010BX** the most accurate, reliable and easy to use Trace O_2 Analyzer in the industry.

PROPRIETARY SENSOR TECHNOLOGY

AMI's patented oxygen sensors deliver extremely fast response, high reliability and long life. Every sensor undergoes a battery of tests to guarantee that they meet our strict quality standards. Our trace oxygen sensors resist up to 500 ppm of H_2S, eliminating the need for a maintenance-intensive H_2S scrubber.

FULL SUITE OF STANDARD FEATURES

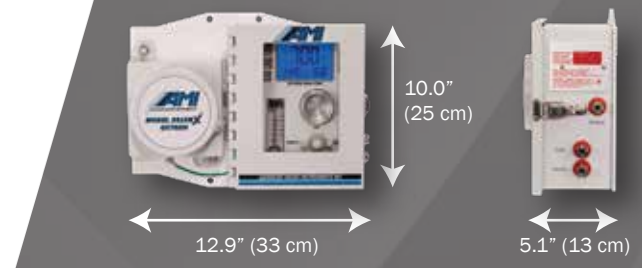
The **MODEL 2010BX** Trace Oxygen Analyzer comes standard with advanced features, including dual independent alarms, comprehensive alarm logic (fail safe or non-fail safe, latching or non-latching and independent alarm delays), alarm bypass, and 3 levels of security settings. Automatic data logging provides detailed time-stamped records of O_2 measurement, temperature, supply voltage and power brown-out history.

MODEL 2010BX

PHYSICAL & ELECTRICAL SPECIFICATIONS

WEIGHT	MOUNTING	GAS CONNECTIONS	WETTED PARTS
16.0 lbs (7.26 kg)	Wall Mount or 2.0" Pipe	¼" 316 S.S. compression fittings	316 S.S. fittings, electro-less nickel-plated cell block, gold-plated contacts, acrylic flow meter & O-rings (Viton, kalrez, and Buna-N)

POWER	
DC	AC
10 – 24 VDC, 150 mA max (non-heated) 10 – 24 VDC, 2.0 Amps max (heated)	100 – 240 VAC, 150 mA max (non-heated) 100 – 240 VAC, 550 mA max (heated)



Note: 2-year Warranty for Parts & Labor for any defects in materials or workmanship. 6-month Warranty for oxygen sensors

OPERATIONAL SPECIFICATIONS

OUTPUT RANGES (USER SELECTABLE)		AMBIENT OPERATIONAL TEMPERATURE			FLOW RATE (RECOMMENDED)	INLET GAS PRESSURE
		NON-HEATED	HEATED	HEATED WITH EXTREME WEATHER ENCLOSURE		
0 – 10 ppm	0 – 5000 ppm	25°F to 115°F (–3.9°C to 46°C)	–20°F to 115°F (–29°C to 46°C)	–40°F to 115°F (–40°C to 46°C)	0.1 to 2.0 SCFH (0.05 – 1.0 Lpm)	0.5 – 150 psig (0.03 – 6.9 bar)
0 – 50 ppm	0 – 1.0%					
0 – 100 ppm	0 – 5.0%					
0 – 500 ppm	0 – 10.0%					
0 – 1000 ppm	0 – 25.0%					

SENSOR & ANALYZER PERFORMANCE SPECIFICATIONS

T-2 SENSOR	T-4 SENSOR	90% UPSCALE RESPONSE TIMES FOR SPECIFIC RANGES		REPEATABILITY	APPROVALS
Max Range 0 –10,000 ppm Special Conditions <10 ppm H_2S 100% CO_2	Max Range 0 –10,000 ppm Special Conditions <500 ppm H_2S 100% CO_2	<25 sec for 0.0 – 10 ppm	<10 sec for 10 ppm – 25.0%	±1% of selected range or ±0.2 ppm of oxygen, whichever is greater	Class I, Division 1,Groups B,C,D, T4 Class I Zone 0/1, AEx ia/db IIB+H2 T4 Ga/Gb IECEX: Ex ia IIB+H2 T4 Ga/Ex db IIB+H2 T4 Gb PESO: Ex ia/db IIB+H2 T4 Ga/Gb ATEX: Ex II 1/2 G Ex ia/db IIB+H2T4 Ga/Gb Ingressed Protection: IP65

ANALYZER KEY FEATURES

ELIMINATOR CELL BLOCK	Contains a Complete Sample System with all components, including the flow meter, metering valve, pressure sensor and 3-way Selection (Sample/Span/Off) Valve, fully integrated
ALARMS	2 fully adjustable concentration alarms with configurable Alarm logic and Relay Contacts, featuring: ▸ Alarm Bypass ▸ Alarm Delays ▸ Trigger Above or Below Setpoint ▸ Latching/Non-latching ▸ Failsafe/Non-failsafe ▸ Open or Close on Alarm
INTERNAL PRESSURE SENSOR	Measures gas inlet pressure from 0 – 150 psig
ANALOG OUTPUTS	1 – 5 VDC and 4 – 20mA isolated output signals and Modbus bi-directional RS485 communication
COMMAND CENTER	Software that works across AMI's Analyzers and gives users access to advanced functions: ▸ Error Status Display ▸ Data Logger (records O_2 measurements, temperature, and power) ▸ Alarm Configurations ▸ Calibration Details
ACCESSORIES	▸ Demister ▸ LRP ▸ Extreme Weather Enclosure

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