

UNMATCHED PERFORMANCE FOR PERCENT OXYGEN MONITORING

The **MODEL 210BX** is AMI's most advanced Percent Oxygen Analyzer. It combines patented technologies and superior design to deliver unmatched performance, reliability and ease of use.

PATENTED ELIMINATOR CELL BLOCK™

The patented design offers the most efficient gas path in the industry 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. Sample gas only needs to travel 4 inches before reaching the sensor, resulting in a 400% faster 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 installation, maintenance and operation of the **MODEL 210BX** the easiest of any Percent Oxygen Analyzer in its class.

PROPRIETARY 0, SENSOR TECHNOLOGY

AMI's patented **P** Series oxygen sensors deliver extremely fast response, high reliability and long life. Every sensor undergoes a battery of tests in our factory to guarantee that they meet our strict quality and performance standards. Our **P** Series percent oxygen sensors are designed to enhance the superior performance of the **MODEL 210BX** Analyzer.

FULL SUITE OF STANDARD FEATURES

The **MODEL 210BX** 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 O₂ measurement, gas pressure, temperature, supply voltage and power brown-out history.



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, 2.2 Amps max (heated)	100 – 240 VAC, 150 mA max (non-heated) 100 – 240 VAC, 550 mA max (heated)				

OPERATIONAL SPECIFICATIONS



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

OUTPUT RANGES		AMBIENT OPERATIONAL TEMPERATURE				THI ET CAS	OPERATIONAL ALTITUDE		
STANDARD RANGE (USER SELECTABLE)	OPTION (USER SI LOW	AL RANGES ELECTABLE) HIGH	NON-HEATED	HEATED	HEATED WITH EXTREME WEATHER ENCLOSURE	(RECOMMENDED)	PRESSURE	DC	AC
0 - 1.0% 0 - 5.0% 0 - 10.0% 0 - 25.0%	0 - 1000 ppm 0 - 1.0% 0 - 10.0% 0 - 25.0%	0 - 10.0% 0 - 25.0% 0 - 50.0% 0 - 100.0%	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 – 10.3 bar)	≤ 5,500 m (18,000 ft)	≤ 2,500 m (8,200 ft)

SENSOR & ANALYZER PERFORMANCE SPECIFICATIONS

P-3 SENSOR	P-4 SENSOR	P-5 SENSOR	REPEATABILITY	ACCURACY	APPROVALS
Max Range: 0-25% 90% upscale response: 30 sec Special Conditions: Up to 50% CO ₂	Max Range: 0-100% 90% upscale response: 30 sec Special Conditions: Enriched Oxygen	Max Range: 0 –25% 90% upscale response: 30 sec Special Conditions: <500 ppm H ₂ S, Up to 50% CO ₂	±1% of range or ±0.1% of oxygen, whichever is greater	±1% of full scale range at constant conditions	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 UKCA/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 TM	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 a Alarm Bypass Latching/Non-latching 	alarms with configurable Alarm log Alarm Delays Failsafe/Non-failsafe	ic and Relay Conta ▶ Trigger Ab ▶ Open or C	cts, featuring: ove or Below Setpoint lose 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 Alarm Configurations Calibration Details						
ACCESSORIES	Demister	▶ LRP	Extreme \	Veather Enclosure			

