

ADVANCED MICRO INSTRUMENTS
An ENPRO Company

MODEL 201LC

PERCENT OXYGEN

ADVANCED PERCENT OXYGEN MEASUREMENTS MADE EASY

The **MODEL 201LC** is the ideal solution for measuring percent oxygen in a wide range of applications in a general purpose environment. In a small in size and at an economical price yet it provides a complete electronics package and sample system using AMI's proprietary ELIMINATOR CELL BLOCK technology.

ELIMINATOR CELL BLOCK FOR A LEAK-FREE DESIGN

AMI's ELIMINATOR CELL BLOCK allows the analyzer to be built with almost no possibility of internal leaking, short flow path, and front-panel sensor access. All sample handling components – the flow meter and needle valve – are integrated into a solid metal block. Connections between them are drilled passages. The result is a highly reliable sample system.

QUICK AND EASY MAINTENANCE

Unlike competitive analyzers, AMI sensor replacement requires minimal downtime due to the front panel sensor access and the proprietary ELIMINATOR CELL BLOCK. The typical time to recover from a one-minute air exposure to come down to 10 ppm is under 15 minutes compared to competitive analyzers that can take hours to recover. The benefit is it is practical to accurately calibrate the analyzer with air yet have it back online in a very short time.

PROPRIETARY SENSOR TECHNOLOGY

The AMI P-3 percent oxygen sensor is inherently faster than competitive sensors due to its metallic body and large active electrode area. It may be used in samples containing essentially 100% CO_2 with no ill effects. The sensor is immediately accessible on the front panel of the analyzer and can be replaced in seconds. It is not necessary to expose the sensor to air unshorted while installing it as is the case with most analyzers which significantly increases their come-down time. Every AMI sensor undergoes a battery of tests to guarantee that they meet our strict quality standards.

EXCEPTIONAL VALUE

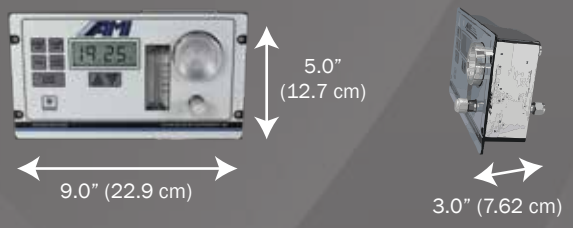
The **MODEL 201LC** provides a standard set of features for percent oxygen analysis at an unprecedented low cost. It delivers accurate, reliable, and fast data needed for trace oxygen measurements.

MODEL 201LC

PHYSICAL & ELECTRICAL SPECIFICATIONS

WEIGHT	GAS CONNECTIONS	WETTED PARTS
5 lbs (2.26 kg)	¼" 316 S.S. compression fittings	316 S.S. fittings, anodized aluminum cell block, acrylic flow meter & O-rings (Viton)

POWER
10 - 28VDC <10 watts, supplied with a 100-240VAC to 12 VDC adapter



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) STANDARD	AMBIENT OPERATIONAL TEMPERATURE	FLOW RATE (RECOMMENDED)	INLET GAS PRESSURE	OPERATIONAL CONDITIONS
0 – 1.0% 0 – 5.0% 0 – 10.0% 0 – 25.0%	41°F to 113°F (5°C to 45°C)	0.1 to 5.0 SCFH (0.05 – 2.36 Lpm)	1 psig to 100 psig (0.07 bar to 6.9 bar)	Pollution Degree 2 Installation Category II

ANALYZER PERFORMANCE SPECIFICATIONS

90% FULL SCALE RESPONSE TIMES	ACCURACY	REPEATABILITY	DRIFT	HUMIDITY
<10 sec	±1% of selected range or ±0.2% of oxygen, whichever is greater	±1% of selected range or ±0.1% of oxygen, whichever is greater	±1.0% of full scale in 4 weeks at constant temperature (depentent in sensor)	<95%, non-condensing

ANALYZER KEY FEATURES

ELIMINATOR CELL BLOCK	Contains a Complete Sample System with all components, including the flow control valve, flow meter, sample, span, and seal-off solenoid valves, fully integrated
ALARMS	2 fully adjustable oxygen concentration alarms (RFI protected): ▸ Alarm Bypass
ANALOG OUTPUTS	4 – 20mA isolated output signals

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