


ADVANCED MICRO INSTRUMENTS
An ENPRO Company

# MODEL 2001LC
## TRACE OXYGEN

# ADVANCED TRACE OXYGEN MEASUREMENTS MADE EASY

The **MODEL 2001LC** is the ideal solution for measuring trace 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

Trace oxygen analyzers are essentially leak detectors. 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 T-2 trace oxygen sensor is inherently faster than competitive sensors due to its metallic body and large active electrode area. It is also naturally resistive to hydrogen sulfide up to 10 ppm $H_2S$ over its warranted life and may be used in samples containing high levels of $CO_2$ 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 2001LC** provides a standard set of features for trace oxygen analysis at an unprecedented low cost. It delivers accurate, reliable, and fast data needed for trace oxygen measurements.

# MODEL 2001LC




## 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 – 28 VDC <10 watts, supplied with a 100-240VAC to 12VDC 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) | | OPERATIONAL TEMPERATURE | FLOW RATE (RECOMMENDED) | INLET GAS PRESSURE | OPERATIONAL CONDITIONS |
|---|---|---|---|---|---|
| STANDARD | OPTIONAL | | | | |
| 0 – 10 ppm<br>0 – 50 ppm<br>0 – 100 ppm<br>0 – 500 ppm<br>0 - 1000 ppm | 0 – 5000 ppm<br>0 – 1.0%<br>0 – 5.0%<br>0 – 10.0%<br>0 - 25.0% | 41°F to 113°F<br>(5°C to 45°C) | 0.1 to 5 SCFH<br>(0.05 - 2.36 Lpm) | 1 psig to 100 psig<br>(0.07 bar to 6.9 bar) | Pollution Degree 2<br>Installation Category II |

## ANALYZER PERFORMANCE SPECIFICATIONS

| 90% OF FULL SCALE IN LESS THAN | | | ACCURACY | REPEATABILITY | DRIFT | HUMIDITY |
|---|---|---|---|---|---|---|
| 0 - 10 ppm | 0 - 100 ppm | 0 - 1000 ppm | | | | |
| <25 sec | <10 sec | <10 sec | ±1% of selected range or ±1.0 ppm of oxygen, whichever is greater | ±1% of selected range or ±0.2 ppm of oxygen, whichever is greater | 1.0% of full scale in 4 weeks at constant temperature (dependent on 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 protectd):<br>▶ Alarm Bypass |
| ANALOG OUTPUTS | 4 – 20mA isolated output signal |

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