



Advanced Micro Instruments, Inc.

www.amio2.com Phone: 714.848.5533



## MODEL 2001

**A sophisticated, compact, microprocessor-based trace oxygen analyzer built for panel-mount general purpose applications. It features a simple straight forward user interface and a revolutionary patented cellblock.**

The **AMI Model 2001** is a sophisticated, compact microprocessor-based trace oxygen analyzer that combines advanced features with a remarkably simple user interface. The controls are quick and intuitive yet still provide a security function against unauthorized tampering.

The Model 2001 provides precise online monitoring of trace oxygen throughout its wide range of measurement. The large 3½ digit display auto-ranges for maximum resolution, while one of the user selectable output ranges remains fixed in your range of interest. We supply 10 standard output ranges: 0-5ppm, 0-10ppm, 0-50ppm, 0-100ppm, 0-500ppm, 0-1000ppm, 0-1%, 0-5%, 0-10% and a air calibration range of 0-25%, two fully adjustable oxygen alarm settings, a system failure alarm, and dual outputs: 0-1VDC and isolated 4-20mA.

Optional measurement ranges include: 0-1ppm, and 0-2ppm.

The advanced patented cellblock design produces fast up and down scale response times. It also provides easy front panel access to the sensor allowing you to install, replace, or air calibrate in seconds without the use of tools. Routine calibrations can be performed on either ambient air (20.9%) or a certified span gas.

The Model 2001 does not require support gases (other than a certified span gas if desired) to operate and is linear throughout its wide range of measurement.

This product is offered in a panel-mount version and designed for use in general-purpose applications.

## SPECIFICATIONS

- **11-standard user selectable ranges:**  
0-5ppm | 0-10ppm | 0-50ppm | 0-100ppm |  
0-500ppm | 0-1000ppm | 0-.500% | 0-1% |  
0-5% | 0-10% | and a calibration range of 0- 25%  
Optional ranges: 0-1ppm or 0-2ppm
- **Minimum detection:** 0.5% of range or 50ppb
- **Repeatability:**  $\pm 1\%$  of full scale at constant temperature (for ranges less than 10ppm, repeatability is  $+3\%$  of scale)
- **Operating temperature range:**  
32-113°F (0-45°C)
- **Diurnal temperature specification:**  
32°F -113°F (0-45°C), less than  $\pm 3$  of scale
- **90% Upscale Response times:**  
100ppm-25%: < 10 sec  
0-10ppm: < 25 sec  
0-5ppm: < 50 sec
- **Alarms (standard):** 2 fully adjustable oxygen concentration set points. Form C relay contact closure. 3A /110V
- **Trouble contacts:** Relay contact closure. 3A /110V
- **Dual output signals:** 0-1VDC and 4-20mA isolated
- **Power requirements:**  
100/117/230VAC  $\pm 10\%$  50/60Hz, < 5 watts
- **Mounting:** Panel mount
- **Area classification:** Class I Div. II, Groups B, C, D
- **Cut out dimensions:** 7.00"W x 3.75"H
- **Front panel dimensions:**  
8.375"W x 5.060"H x 5.00"D
- **Weight:** 6 lbs
- **Sensor access:** Easy, direct front panel access
- **Sample connections:**  
316 S.S. 1/4" compression fittings
- **Wetted parts:** Electroless nickel-plated metallic block, 316 S.S. fittings

## STANDARD FEATURES

- Auto-ranging digital display
- 11-user selectable output ranges:  
0-5ppm | 0-10ppm | 0-50ppm | 100ppm |  
0-500ppm | 0-1000ppm | 0-.500% | 0-1% |  
0-5% | 0-10% | and a calibration range of 0-25%  
Optional ranges: 0-1ppm or 0-2ppm
- RS-232 bi-directional communications
- Dual outputs: 0-1VDC and 4-20mA isolated
- 2 fully adjustable oxygen concentration alarms. Form C relay contacts 3A/115VAC
- Security function
- Trouble relay contacts 3A/115VAC
- Power requirements
- Direct, easy front panel sensor access
- Compact size
- Nickel-plated cellblock, 316 S.S. 1/4" compression fittings
- 2 year warranty (excluding sensor)
- No calibration or support gases necessary
- Virtually unaffected by hydrocarbons and other oxidizable gases
- RFI protected
- Unaffected by change in flow rate (0.1 through 5 SCFH)

## ADVANTAGES

- Secured intuitive user interface
- Direct front panel sensor access
- Ability to calibrate on air
- Compact size
- Two year warranty
- Improved temperature specifications
- Unaffected by change in flow
- No support gases necessary
- Unaffected by hydrocarbon or other oxidizable gases
- RFI protected
- No enclosure purge necessary for
- Low cost

