

## MODEL 2001LC



The AMI model 2001LC is the ideal solution for measuring trace oxygen in a wide range of applications in a general purpose environment. In a small size, and at very low cost, it provides a complete electronic package and sample system using AMI's patented cell block technology.

- Display reads oxygen from 0.05ppm up to 25.0% with no range changes
- Analog output and alarms can be configured to operate over any of ten ranges from 0-10ppm to 0-25% for best resolution
- Analog output 4-20mA, isolated.
- Complete sample system built in to AMI's patented cell block.
- Very rapid response time from air to low ppm levels.
- Easily replaceable sensor, no tools required.
- T-2 sensor resistant to 10ppm H<sub>2</sub>S standard.
- Simple, versatile installation.
- Operates off 10-28VDC with very low power consumption
- AC-DC converter provided
- 2 independent, fully adjustable alarm settings with relay contacts.
- Oxygen Sensor life indication.

Unlike competitive analyzers, AMI sensor replacement requires minimal downtime due to the front panel sensor access and the patented AMI cell block. Typical time from a one minute air exposure to 10ppm is under 15 minutes. Trace oxygen analyzers are essentially leak detectors. AMI's patented cell block allows the analyzer to be built with almost no possibility of internal leaking, with minimal volume and with 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 with all necessary components provided, and a very fast "come-down" time – when a sensor is replaced, or calibrated on air with a 1 minute exposure (at 70°F), it takes about 15 minutes for it to come down to below 10ppm. Competitive analyzers typically take hours. As a result it is practical to accurately calibrate this analyzer on air and have it back on line within a very short time.

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 10ppm H<sub>2</sub>S over its warranted life, and may be used in samples containing high levels of CO<sub>2</sub> 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).

The 2001LC provides a standard set of features for trace oxygen analysis at an unprecedentedly low cost.

# FEATURES

- Trace oxygen measurement from 0.05ppm to 25%.
- Unaffected by sample flow rate changes between 0.1 – 5 SCFH.
- Standard AMI T-2 trace electrochemical sensor.
- Panel mount.
- Compact size.
- 10 user selectable output ranges.
- 3 ½ digit LCD.
- 2 fully adjustable oxygen concentration alarms• RFI protected.
- Isolated 4-20mA. analog output signal.
- Power requirements: 10-28VDC <3 watts, supplied with a 115VAC to 12VDC adapter.
- Low original cost and virtually maintenance free over its entire life.
- Area Classification: Designed to meet General Purpose requirements.
- 2 year warranty for analyzer, parts and labor.
- 6 month sensor warranty.

# SPECIFICATIONS

- 2001LC Series Standard ranges:
  - 0 – 10 ppm, 0 – 50ppm, 0 –100 ppm, 0 – 500 ppm, 0 – 1000ppm, 0 – 5000 ppm, 0 – 1%, 0 – 5%, 0 – 10%, 0 –25%
- Sensitivity: 0.5% of full scale
- Repeatability: +/- 1% of full scale at constant temperature
- Operating temperature: 41°F to 113°F
- Humidity: < 95%, non-condensing
- Maximum inlet pressure: 100psig.
- Operational conditions: Pollution degree 2, Installation category I I.
- Drift: +/- 1% of full scale in 4 weeks at constant temperature (dependent on sensor)
- Expected cell life: 9 months to 2 years.
- Response times:
  - 90% of full scale in less than:
    - 0 – 10 ppm 25 sec
    - 0 – 100 ppm 10 sec
    - 0 – 1000 ppm 10 sec
- Output: 4-20mA isolated.
- Alarm contacts: 230/117VAC @ 5A, or 28VDC @ 5A, resistive
- Power requirements: 24VDC <10W.
- Absolute Maximum Power voltage 28VDC
- Overall dimensions: 9" w x 5" h x 3" d
- Mounting hole dimensions: 7.92" w x 4.81" h
- Weight 5 lbs