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MODEL 201LC



The AMI model 201LC is the ideal solution for measuring percent 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 0.01% up to 25.0%% with no range changes
- Analog output and alarms can be configured to operate over any of four ranges from 0-1% to 0-25%
- 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.
- P-2 sensor standard.
- Other sensors available for CO₂ operation.
- 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.

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. As a result it is practical to accurately calibrate this analyzer on air. Different sensors are available for gases containing CO₂ or H₂S.

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. The 201LC provides a standard set of features for percent 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 P-2 trace electrochemical sensor.
- Various sensors available for different applications
- Panel mount.
- Compact size.
- 4 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

- 201LC Series Standard ranges:
- 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 II.
- 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 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