

Trace Oxygen Analyzer Model 2001LC-GB



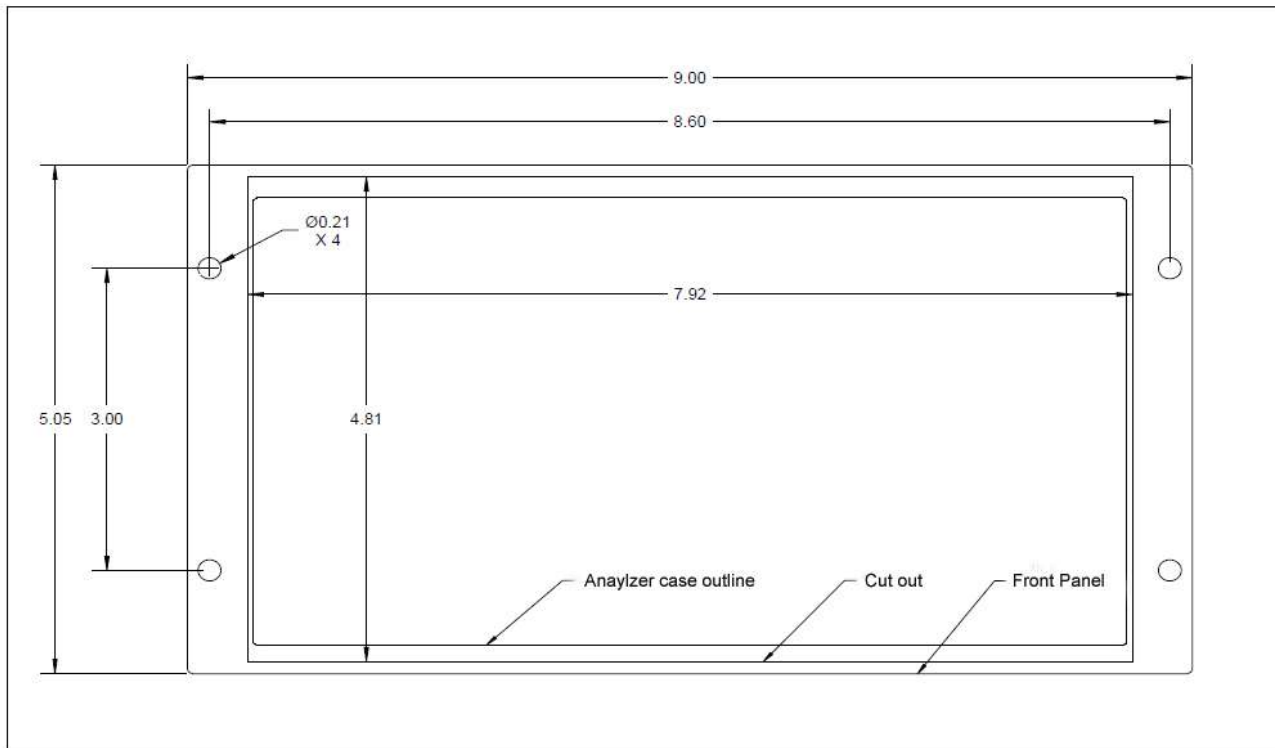
Designed specifically for inert atmosphere glovebox applications.

Includes, sample pump, and fittings for glovebox installation. UsedGloveBox.com will provide complete technical support during installation and operation on your existing glovebox.

Features:

- Compact size
- Unique patented cell block
- Diaphragm sample pump (inside glovebox) send sample to the sensor and returns sample back to glovebox
- Auto-ranging display with user-selectable output range
- Front panel sensor access
- Air or span gas calibration, no zero gases required
- Virtually unaffected by hydrocarbons or other oxidizable gases
- High accuracy and fast response
- Large liquid crystal display
- Backed by a two year warranty (excluding sensor)
- Standard isolated 4-20mA output
- Two fully adjustable alarm relay contact closures 24VDC/230VAC 5A.

Instrument Outline and Cut Out Drawing (dimensions in inches)



Oxygen Sensor:

The electrochemical sensor measures the concentration of oxygen in a gas stream, using an oxygen specific chemistry. It generates an output current in proportion to the amount of oxygen present, and has zero output in the absence of oxygen, thus avoiding any requirement to zero the analyzer.

The cell is linear throughout its range. The span calibration may be performed using standard span gases or ambient air. Unlike competitive sensors, this sensor is made using a high capacity metallic body that provides long life with about twice the active ingredients of conventional sensors, but without compromised come-down time.

Sensor Warranty:

The sensor is warranted to operate for a period determined by its class. If the sensor ceases to operate correctly before this time has elapsed, contact us for a return authorization for evaluation. If there is any evidence of defective material or workmanship the sensor will be replaced free of charge.

NOTE: Any evidence of abuse or physical damage, such as a torn membrane, will void the warranty.

Instrument Warranty:

Any failure of material or workmanship will be repaired free of charge for a period of two years from the original purchase (shipping date) of the instrument. We will also pay for one way shipment (back to the user). This warranty does not cover the sensor, which is covered by its own warranty (see above).

**MODEL 2001LC - GB**

Perfect low cost solution for trace oxygen applications.

The 2001LC-GB is a low cost state-of-the-art trace oxygen analyzer designed for applications requiring only essential features in General Purpose applications.

The 2001LC-GB well suited for a number of applications including: nitrogen gas generation, glove box, air separation and many others. It provides the essential components required for a complete, quick and simple installation where trace oxygen analysis is required and the advanced features of the Model 2001RS may become redundant.

Prior to the release of the 2001LC-GB, competitive low cost solutions consisted of either a two-wire transmitter or an O₂ sensor and cellblock. Both are inadequate by themselves since they lack an essential sample system and basic electronic components. A trace oxygen analyzer is a great leak detector; inadvertently adding substandard valving and fittings after the purchase of such a device can create minute leak paths into the analyzer, which can cause disastrously misleading results.

This is why we go the extra distance with our patented cellblock technology.

The patented cellblock begins with a single compact metallic block that undergoes a complex machining process, followed with corrosion-resistant nickel plating. The block contains a series of drilled intersecting gas passages and mounted directly on it are: a custom designed flow control valve, flow meter and 2 gas connection fittings. All become an integral part of the cellblock.

This eliminates the techniques used by competitors of piecing several lengths of tubing between numerous compression fittings, valving and a flow meter. In using this approach, they add many potential leak paths, increase response times and the need for additional space.

The essentials include:

- Patented cellblock technology
- High resolution 3 1/2 LCD
- 10 User-selectable analog output ranges
- Isolated 4-20mA analog output
- Remaining oxygen sensor life indication
- High performance oxygen sensor

This rugged, compact, complete oxygen analyzer allows for quick and simple installation resulting in big savings.

MODEL 2001LC-GB**FEATURES**

- 10 user selectable output ranges to choose from
- High resolution 3 digit LCD
- RFI protected
- 4-20mA. isolated analog output
- Power requirements: 115/230VAC wall mount adapter
- Low minimum detection limit
- Excellent repeatability
- Fast upscale/downscale response times
- Patented Cellblock Technology: Allows for all components such as: flow control valve, flow meter, and compression fittings to be an integral part of the cellblock, eliminating long lengths of tubing and fittings.
Other benefits of this design include: compact size, faster response times and front panel sensor access without the need for tools.
- Area Classification: Designed for General purpose applications
- Unaffected by changes in flow rate from 0.1 to 2.0 SCFH
- Panel mount
- Compact size
- 2 year warranty for analyzer, parts and labor
- 6 month sensor warranty, life expectancy 1-2 years

SPECIFICATIONS

- **10 user selectable output ranges to choose from:**
0-10ppm, 0-50ppm, 0-100ppm, 0-500ppm, 0-1000ppm, 0-.500%, 0-1%, 0-5%, 0-10% and 25%
The user selection of an output range simultaneously controls the analog output so that both functions operate on the same range
- **Digital display:** High resolution 3 digit LCD. Reads full scale from 0.00ppm to 25.0% independently of output range selection
- **Isolated 4-20mA. analog output signal**
Represents the output range selected:
0-10ppm, 0-50ppm, 0-100ppm, 0-500ppm, 0-1000ppm, 0-.500%, 0-1%, 0-5%, 0-10% and 25%
- **Power requirements:** 115/230 VAC wall mount adapter. Converts 115/230VAC to 12VDC <50mA. @ 12VDC
- **Minimum detection:** 50ppb of oxygen
- **Repeatability:** +/- 1% of range or +/- 0.2ppm of oxygen, whichever is greater
- **Operating temperature range:** 32 to 115° F
- **Diurnal temperature specification:**
< +/- 3 % of scale over temperature range
- **90% upscale response times:**
10ppm – 25% <10 seconds; 0-10ppm < 25 seconds
Typical downscale response: 1 minute exposure to air down to 10ppm: < 15 minutes
- **Area Classification:** Designed for General Purpose applications
- **Inlet gas pressure:** 0.5 to 150psig
- **Gas connections:** ¼" 316 S.S. compression fittings
- **Wetted parts:** 316 S.S. fittings, electroless nickel plated cellblock, gold plated contacts, acrylic flow meter and Viton O-rings
- **Unaffected by changes in flow rate from 0.1 to 2.0 SCFH**
- **Panel Mount design**
- **Dimensions:** 9.0"W x 5.0"H x 3.0"D
- **Weight:** 4 lbs.