Detecting leaks in a pressurized pipeline sometimes requires operators to go to the field and spot-check different sites over a short period of time. You not only have to be concerned about getting reliable trace oxygen measurements, but you have to be confident that your Portable Trace Oxygen Analyzer can perform in some of the harshest environments.

The **MODEL 1000RS** is the top choice in the Natural Gas Industry when field PPM oxygen measurements are needed. The Analyzer delivers trace oxygen readings that are fast and highly reliable, and its agency-approved compact, rugged design can withstand the physical demands of some of the toughest conditions. Our patented *Eliminator Cell Block™* contains all sample handling components (flow meter, needle valve and a 4-way Sample/Span/Off Selection Valve), integrated into a solid metal block with internal drilled passages and an incredibly gas-efficient sensor pocket. The special 4-way Selection Valve inside the *Block* not only permits you to seal off the oxygen sensor when it is not in use, but its design also allows you to bypass the sensor while purging the Analyzer after connecting to the sample line.

The **MODEL 1000RS** utilizes *T-2* and *T-4* Oxygen Sensors with *Bullet Sensor Technology™* for unsurpassed accuracy. The **Command Center Electronics Platform™** is also available for use with this Analyzer. This incredible platform gives operators access to a complete suite of powerful software-based tools for data collection and management. There is no other Portable Trace Oxygen Analyzer that can achieve this level of performance while still providing users with exceptional ease-of-use.

**Rugged and Completely PORTABLE**
# TECHNICAL SPECIFICATIONS & FEATURES

## PHYSICAL

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>4.5&quot;W x 9.5&quot;H x 4.5&quot;D (compact size) (11.4 cm x 24.1 cm x 11.4 cm)</td>
</tr>
<tr>
<td>Weight</td>
<td>5.0 lbs (2.3 kg)</td>
</tr>
<tr>
<td>Digital Display</td>
<td>4-digit LCD (reads full scale from 0.05 ppm to 25.0%)</td>
</tr>
<tr>
<td>Gas Connections</td>
<td>¼” 316 S.S. compression fittings and ¼” nipple for exhaust</td>
</tr>
<tr>
<td>Wetted parts</td>
<td>316 S.S. fittings, electro-less nickel-plated cell block, gold-plated contacts, acrylic flow meter &amp; Vitron O-rings</td>
</tr>
<tr>
<td>Warranty</td>
<td>2 - year warranty for Parts &amp; Labor for any defects in materials or workmanship</td>
</tr>
</tbody>
</table>

## TECHNOLOGY

- **Method of Measurement**: Electrochemical Oxygen Sensor
- **Eliminator Cell Block™** with a Complete Integral Sample System
- **Command Center Electronics Platform™** (accessed through the Command Center User Interface Software)
  - Datalogger for Oxygen Readings, includes graph of complete readings over a 15-day period or Excel file containing raw numerical data for custom analysis
  - Error Status Display alerts users to any error(s) detected by the Analyzer
  - Brown-out history stores the last 5 brown-out incidents and recoveries
  - Power-up history stores the last 10 times the unit was powered-up
- Analyzer uses **T-2** and **T-4** Oxygen Sensors, which utilize **Bullet Sensor Technology™** (O₂ sensors have a 6-month warranty)

## PERFORMANCE

- **Minimum detection limit**: 50 ppb of Oxygen
- **90% upscale response times** for these specified ranges:
  - <10 sec for 10 ppm – 25.0%, <25 sec for 0.0 – 10 ppm
  - Fast downscale response:
  - <15 min (after 1 min exposure to air to return below 10 ppm)
- **Repeatability**: ±1% of range or ±0.2 ppm of oxygen, whichever is greater
- **Diurnal Temperature Specification**: <3% of scale over temperature range
- **Data Collection Capacity**: provides 15 days of data recording @1 datapoint per minute
- **Inlet gas pressure**: 0.5 – 150 psig (0.03 – 10.3 bar)
- **RFI-protected**

## OPTIONS

- **Accessories**: Protective carrying case for the Analyzer plus Sample Tubing; Flexible, microbore Sample Tubing; Auxiliary Charging Adapter; USB Cable with Command Center User Interface Software

## POWER

- **Requirements**: 115/230 VAC to 12 VDC Battery Charger
- **Rechargeable Nickel Cadmium Batteries** (for 350 hours of battery life)

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**HIGH PERFORMANCE**
**RELIABILITY**
**INTUITIVE DESIGN**