NEO Monitors LaserGas™ is using Tuneable Diode Laser Absorption Spectroscopy (TDLAS) i.e. a non-contact optical measurement method employing solid-state laser sources. Therefore, the sensor remains unaffected by contaminants and corrosives and does not require regular maintenance. The laser beam is coupled into a measurement cell, where it is reflected one time from a flat mirror in order to enhance the analyzer sensitivity.

The R2P Monitor employs a measurement cell concept to combine extractive measurement with a compact analyzer design. The measurement path length will enhance the detection limit. Heated and nonheated cells are available. To avoid fouling of optical parts in the measurement cell the cleanliness of the sample gas must be ensured. Filtering the sample gas in an appropriate extractive system may be required for some applications.

### Features
- Short response time
- Low detection limits (ppm for most gases)
- No interference from background gases
- Stable calibration
- No zero drift
- Offline gas analysis in controlled environment
- Rack mounted

### Applications
LaserGas™ R2P monitor is designed for reliable and fast measurement of all kinds of gases in any environment, most typically:
- Laboratory and university
- Chemical industry
- Petrochemical industry
- Industrial gases
- Power plants
- H2S emission monitoring
- and more

### Customer benefits
- Compact analyzer design
- Rack mounted
- Measures trace levels of gases, offline in a controlled environment
- Limited need for maintenance
- Highly reliable real time analyzer
- Low maintenance cost
- Reduce emission to the environment
- Easy to install and operate
- Reduce daily operation costs
- Optimize process
- Well proven measurement technique
- Heated samples are optimal
Technical Data

**LaserGas™ R2P Monitor**

**Gas Detection limit (ppm)**

<table>
<thead>
<tr>
<th>Gas</th>
<th>Detection limit (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>O₂</td>
<td>140 ppm</td>
</tr>
<tr>
<td>HCL</td>
<td>0.07 ppm</td>
</tr>
<tr>
<td>H₂S</td>
<td>4.5 ppm</td>
</tr>
<tr>
<td>CH₄</td>
<td>0.3 ppm</td>
</tr>
<tr>
<td>CO</td>
<td>0.4 ppm</td>
</tr>
<tr>
<td>CO₂</td>
<td>43 ppm</td>
</tr>
<tr>
<td>NO</td>
<td>25 ppm</td>
</tr>
<tr>
<td>N₂O</td>
<td>7 ppm</td>
</tr>
<tr>
<td>NH₃</td>
<td>0.2 ppm</td>
</tr>
</tbody>
</table>

**NOTE:** Detection limits are specified as the 95% confidence interval for the standard 0.7 m measurement cell and gas temperature / pressure = 25 °C / 1 bar abs measured in N₂.

Other gases on request.

**Your local distributor:**