Confidence in results and analyzer performance in a radioactive environment.

The ORBISPHERE G1200 luminescent sensor offers a new way of monitoring oxygen in high purity water applications. Designed to reduce maintenance requirements and complexity to a minimum, this oxygen sensor is operator independent with a fully automatic calibration method, so reducing personnel radiation exposure. This on-line process analyzer originally designed for use in fossil power generation plants has been improved to optimize its efficiency and durability in the presence of radiation making it an ideal solution for the monitoring of not only the secondary loop but also the reactor cooling system or the condensate in Nuclear Power Plants.

User exposure to radiation limited to 5 minutes annual service
Service requirements are limited to 5 minutes every 18 months to replace the active spot of the sensor.

Traceable fully automatic in-situ calibration
The sensor can be calibrated either automatically at pre-defined intervals, or manually on an ad-hoc basis.

Optimized for use on radioactive samples, no interference from hydrogen

Tested and approved in nuclear applications for primary circuit (2Gy cumulated)

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accuracy</td>
<td>$(r \ 95) \pm 1 \text{ ppb} \pm 2% \text{ in the } 0 - 600 \text{ ppb range}$</td>
</tr>
<tr>
<td>Ambient Temperature</td>
<td>-5 - 100 °C (23 - 212 °F)</td>
</tr>
<tr>
<td>Certifications</td>
<td>2004/108/EC - EN 61326-1</td>
</tr>
<tr>
<td>Flow Rate</td>
<td>20 to 200 ml/min</td>
</tr>
<tr>
<td>Lower Limit of Detection (LOD)</td>
<td>2 ppb</td>
</tr>
<tr>
<td>Range</td>
<td>Detection Range 0 - 20000 ppb</td>
</tr>
<tr>
<td>Repeatability</td>
<td>$\pm 1 \text{ ppb} \pm 2% \text{ in the } 0 - 600 \text{ ppb range}$</td>
</tr>
<tr>
<td>Reproducibility</td>
<td>$\pm 2 \text{ ppb} \pm 2.5% \text{ in the } 0 \text{ to } 600 \text{ ppb range}$</td>
</tr>
<tr>
<td>Response Time</td>
<td>$(90%)&lt;$</td>
</tr>
<tr>
<td>Sample Pressure</td>
<td>1 - 4</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>5 - 45°C / 41 - 113 °F</td>
</tr>
<tr>
<td>Weight</td>
<td>0.5 kg</td>
</tr>
<tr>
<td>What's included?</td>
<td>G1200 Sensor, User Instructions</td>
</tr>
</tbody>
</table>
What's included?

G1200 Sensor, User Instructions