Axetris is introducing a compact laser gas sensor in 2020

**Small & high-performance—our new LGD Compact-A**

The new **LGD Compact-A** is a family of compact ambient modules. Thanks to its optical multi-path design, it is delivering a significantly improved measuring performance. These sensors are well suited for the field of portable leak detection, continuous gas monitoring as well as medical applications.

**A Range of Added Benefits**

The compact design of the LGD Compact-A allows integration into portable instruments. It is equipped with an optical multi-path system, which provides high measuring performance in terms of detectivity and precision. Thanks to low-power consumption, it is best suited for battery-powered operation.

**Benefits at a Glance**

- Size: designed for portable instruments
- Performance: lower detection limits, measuring speed, dual-range and dual-gas measurement capabilities

**Our Strengths**

- Laser Spectroscopy (TDLS) based
- High Selectivity and Precision
- Ambient Gas Measurement

Preliminary overview of major product specifications is reported in the table below:

<table>
<thead>
<tr>
<th>Product Execution</th>
<th>Mode</th>
<th>Target Gas</th>
<th>Measuring Range(s)</th>
<th>LDL</th>
</tr>
</thead>
<tbody>
<tr>
<td>LGD Compact-A CH4</td>
<td>N/A</td>
<td>CH4</td>
<td>0–100 ppm 0–4 % Vol.</td>
<td>≤ 0.4 ppm</td>
</tr>
<tr>
<td>LGD Compact-A CH4/C2H6</td>
<td>Single Gas</td>
<td>CH4</td>
<td>0–100 ppm 0–4 % Vol.</td>
<td>≤ 0.8 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C2H6</td>
<td>0–1’000 ppm</td>
<td>≤ 20 ppm</td>
</tr>
<tr>
<td>LGD Compact-A CH4/CO2</td>
<td>N/A</td>
<td>CH4</td>
<td>0–250 ppm</td>
<td>≤ 0.4 ppm</td>
</tr>
<tr>
<td></td>
<td>N/A</td>
<td>CO2</td>
<td>0–10 % Vol.</td>
<td>≤ 2’000 ppm</td>
</tr>
<tr>
<td>* LGD Compact-A NH3/H2O</td>
<td>N/A</td>
<td>NH3</td>
<td>0–20 ppm 0–100 ppm</td>
<td>≤ 0.4 ppm</td>
</tr>
<tr>
<td></td>
<td>N/A</td>
<td>H2O</td>
<td>0–20 % Vol.</td>
<td>≤ 2’000 ppm</td>
</tr>
</tbody>
</table>

* Part of future extension of the product portfolio. Samples are available on demand. Find more detailed information in the datasheet.

www.axetris.com/lgd
Your Applications

Fugitive Emissions Monitoring for NH₃ and CH₄

Fugitive emissions are emissions of gases or vapors from industrial equipment due to leaks and other unintended release of gases from applications such as waste water treatment plants. Besides the economic cost of lost commodities, fugitive emissions are a major source of air pollution and contribute to climate change. Axetris’ Laser Gas Detection Module provides a contactless and therefore excellent solution. It can be used for effective ventilation control and scrubbing installations management to reduce health threats and odor problems.

Indoor Air Quality Monitoring for NH₃

The exposure of ammonia gas above 1 ppm can cause irritation to the eyes, nose and throat in humans. Most people recognise ammonia odours above 1 ppm. Exposure to concentrations of ≥ 25 ppm and higher may cause severe health complaints and even permanent damage to eyes and lungs. Our TDLS gas sensors are used for: monitoring the production processes of ammoniacal products, room air sampling for farm animals, workplace monitoring, environmental assessment of protected areas and city surveillance.

Leak Detection Portable for CH₄/C₂H₆

Methane and other hydrocarbon emissions from extraction sites, gas treatment plants, pipelines and city-gas networks are a safety hazard. They also present a serious challenge in reducing overall greenhouse gas emissions (GHG). The low power consumption of the LGD Compact-A Module allows long battery-powered operation as well as fast reaction times due to minimized cell volume. Its rugged layout allows the LGD Module an excellent instrument for CH₄-specific measurements for portable and vehicle mounted monitoring equipment.

Find more of our environmentally friendly solutions on our website: www.axetris.com/en/lgd/environmental-compliance

Contact

Headquarters
Axetris AG, Switzerland
CH-6056 Kaegiswil
phone: +41 41 662 76 76
axetris@axetris.com
www.axetris.com

USA
Leister Technologies LLC
Fremont, CA | Itasca, IL
phone: +1 408 669 7001
axetris.usa@axetris.com
www.axetris.com

China
Leister Technologies Ltd.
Shanghai 201 109
phone: +86 21 6442 2398
axetris@axetris.cn
www.axetris.cn

Japan
Leister Technologis KK
Yokohama 222-0033
phone: +81 45 477 36 37
axetris@axetris.jp
www.axetris.jp

Swiss Made Quality. Axetris is an ISO 9001 certified enterprise.