SGAS701, SGAS707 and SGAS711 Gas Sensors

Hit the Gas!

**SENSORS FEATURES AND BENEFITS**
- Reliable gas detection
- High sensitivity to a wide range of gases
- Long lifetime:
  - SGAS707: 3 to 5 years
  - SGAS701/SGAS711: 5+ years
- Minimal response to relative humidity (RH)
- Proprietary sensing materials
- Over a decade of gas sensing experience
- Reduced frequency of calibrations
- Reduced maintenance and overall system cost
- TVOC < 1 to 1000 ppm (SGAS707)

IDT offers innovative, high performance gas sensors ideal for industrial leak detection and air quality applications. Our industry-leading sensors are based upon a highly reliable ceramic substrate, coupled with advanced nanostructured materials tailored for individual applications. IDT’s gas sensors are capable of accurate detection of a range of gases, including hydrogen, flammable gases (methane, propane, natural gas) and volatile organic compounds (includes TVOC, alcohols, aldehydes, ketones and more).

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Sensor Function</th>
<th>Package Code</th>
<th>Package Type</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGAS701</td>
<td>Hydrogen</td>
<td>T04</td>
<td>T0-39</td>
<td>-20 to +50°C</td>
</tr>
<tr>
<td>SGAS707</td>
<td>Industrial Organic Chemical</td>
<td>T04</td>
<td>T0-39</td>
<td>0 to +40°C</td>
</tr>
<tr>
<td>SGAS711</td>
<td>Flammable Gas</td>
<td>T04</td>
<td>T0-39</td>
<td>-20 to +50°C</td>
</tr>
</tbody>
</table>
SGAS Sensors Family

Typical Applications for Leak Detection and Organic Gases

**LEAK DETECTION**
- Leak measurement for hydrogen, methane, propane, LPG, natural gas, and other flammable gases in ppm range

**BUILDING AND INDUSTRIAL AIR QUALITY**
- Measure VOC in offices, light industrial applications, hospitals, schools
- Control ventilation systems based upon real-time air quality
- Measure efficacy of filtration/purification operations

**SGAS711 Gases Detected**
- Hydrogen
- Methane
- Propane
- LPG
- Natural Gas
- Freons

**SGAS707 Gases Detected**
- VOC (Volatile Organic Compounds)
- TVOC (Total Volatile Organic Compounds)
- Alcohol – ethanol, isopropanol
- Ketones – methyl ethyl ketone (MEK)
- Aldehydes – formaldehyde
- Aromatics – toluene, xylene

**PROCESS CONTROL**
- Measure hydrogen leaks to test seals and product integrity

**SGAS701 Gases Detected**
- Hydrogen 1 to 1000 ppm

**SGAS711 RESPONSE**

To request samples, download documentation or learn more, visit: idt.com/gas