

**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)

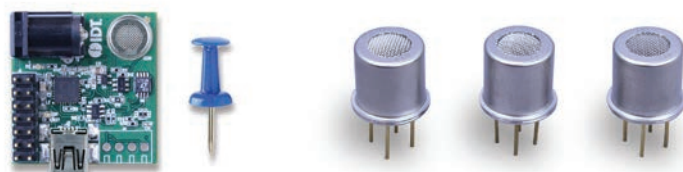
# SGAS701, SGAS707 and SGAS711 Gas Sensors

## Hit the Gas!



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).

Part Number	Sensor Function	Package Code	Package Type	Temperature Range
<b>SGAS701</b>	Hydrogen	T04	T0-39	-20 to +50°C
<b>SGAS707</b>	Industrial Organic Chemical			0 to +40°C
<b>SGAS711</b>	Flammable Gas			-20 to +50°C



## 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

#### SGAS711 Gases Detected

- Hydrogen
  - Methane
  - Propane
  - LPG
  - Natural Gas
  - Freons
- 10 to 1000 ppm



#### 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

#### SGAS707 Gases Detected

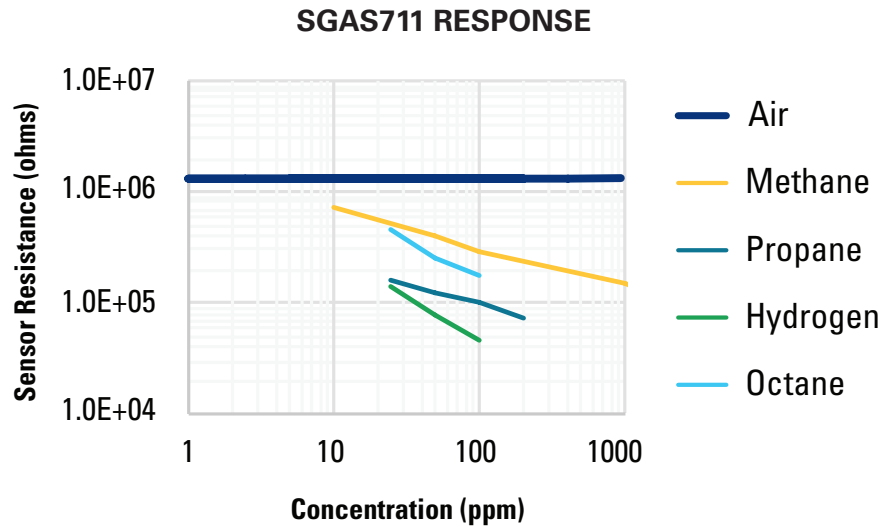
- VOC (Volatile Organic Compounds)
  - TVOC (Total Volatile Organic Compounds)
  - Alcohols – ethanol, isopropanol
  - Ketones – methyl ethyl ketone (MEK)
  - Aldehydes – formaldehyde
  - Aromatics – toluene, xylene
- 1 to 1000 ppm

#### PROCESS CONTROL

- Measure hydrogen leaks to test seals and product integrity

#### SGAS701 Gases Detected

- Hydrogen 1 to 1000 ppm



To request samples, download documentation or learn more, visit: [idt.com/gas](http://idt.com/gas)