

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
SGAS701	Hydrogen	T04	T0-39	-20 to +50°C
SGAS707	Industrial Organic Chemical			0 to +40°C
SGAS711	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

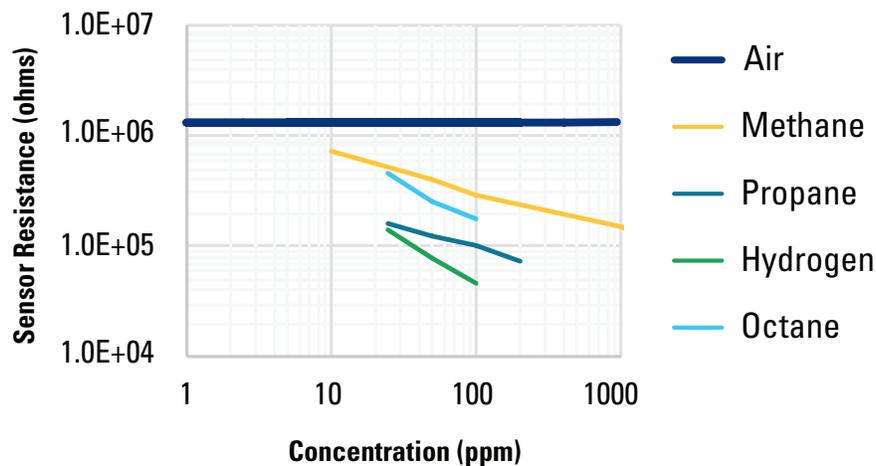
PROCESS CONTROL

- Measure hydrogen leaks to test seals and product integrity

SGAS701 Gases Detected

Hydrogen 1 to 1000 ppm

SGAS711 RESPONSE



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