

SGAS701, SGAS707 & SGAS711 Gas Sensor Modules



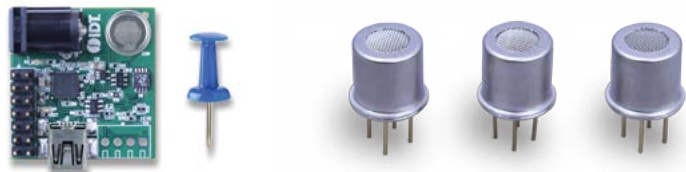
Hit the Gas!

SENSOR FEATURES AND BENEFITS

- Reliable gas detection
- High sensitivity to a wide range of gases
- Non-specific response
- Long lifetime:
 - SGAS707: 3 to 5 years
 - SGAS701/SGAS711: 5+ years
- Response time < 30 seconds
- 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).

Part Number	Sensor Function	Package Code	Package Type	Temperature Range
SGAS701	Hydrogen	TO4	TO-39	-20 to +50°C
SGAS707	Industrial Organic Chemical			0 to +40°C
SGAS711	Flammable Gas			-20 to +50°C



Typical Applications for Leak Detection & 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



SGAS701 Gases Detected

Hydrogen 1 to 1000 ppm

Process Control
Measure hydrogen leaks to test seals and product integrity

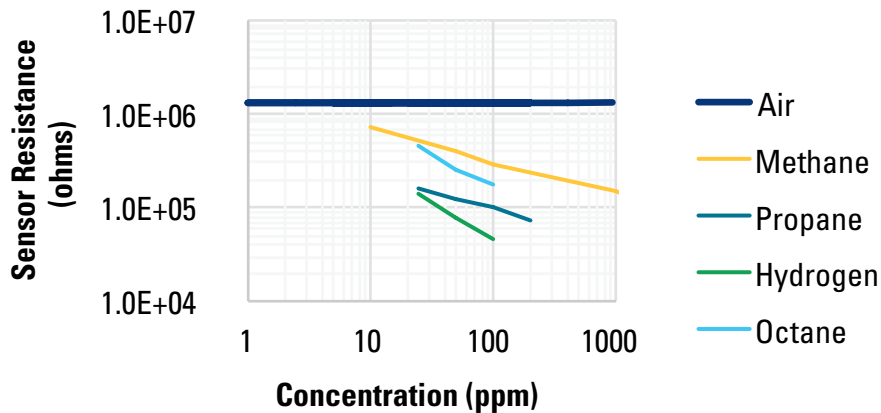
Building & Industrial Air Quality
Measure VOC in offices, light industrial applications, hospitals, schools
Control ventilation systems based upon real time air quality
Measure efficacy of filtration/ purification operations

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

SGAS711 RESPONSE



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