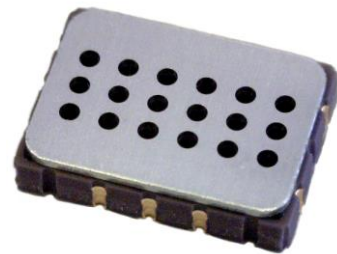




The MiCS-5914 is a compact MOS sensor.

The MiCS-5914 is a robust MEMS sensor for ammonia detection; suitable also for gas leak detection and indoor and outdoor air quality monitoring.

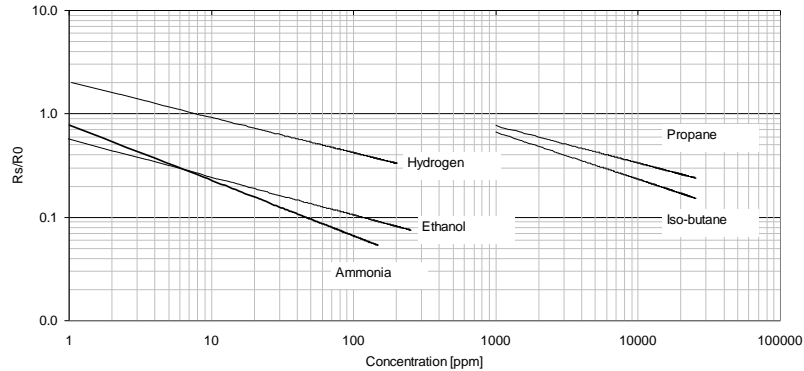


Features

- Smallest footprint for compact designs (5 x 7 x 1.55 mm)
- Robust MEMS sensor for harsh environments
- High-volume manufacturing for low-cost applications
- Short lead-times

Detectable gases

- | | | |
|--------------|---------------------------------|-------------|
| • Ammonia | NH_3 | 1 – 500ppm |
| • Ethanol | $\text{C}_2\text{H}_5\text{OH}$ | 10 – 500ppm |
| • Hydrogen | H_2 | 1 – 1000ppm |
| • Propane | C_3H_8 | >1000ppm |
| • Iso-butane | C_4H_{10} | >1000ppm |



Continuous power ON, 25°C, 50% RH

For more information please contact:

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Performance sensor

Characteristic RED sensor	Symbol	Typ	Min	Max	Unit
Sensing resistance in air (see note 1)	R_0	-	10	1500	$k\Omega$
Typical NH ₃ detection range	FS		1	300	ppm
Sensitivity factor (see note 2)	S_R	-	1.5	15	-

Notes:

1. Sensing resistance in air R_0 is measured under controlled ambient conditions, i.e. synthetic air at $23 \pm 5^\circ\text{C}$ and $50 \pm 10\%$ RH. Sampling test.
2. Sensitivity factor is defined as R_s in air divided by R_s at 1 ppm of NH₃. Test conditions are $23 \pm 5^\circ\text{C}$ and $50 \pm 10\%$ RH. Indicative values only. Sampling test.

IMPORTANT PRECAUTIONS:

Read the following instructions carefully before using the MiCS-5914 described here to avoid erroneous readings and to prevent the device from permanent damage.

- The sensor must be reflow soldered in a neutral atmosphere, without soldering flux vapours.
- The sensor must not be exposed to high concentrations of organic solvents, silicone vapours or cigarette-smoke in order to avoid poisoning the sensitive layer.
- Heater voltage above the specified maximum rating will destroy the sensor due to overheating.
- This sensor is to be placed in a filtered package that protects it against water and dust projections.
- SGX sensortech strongly recommends using ESD protection equipment to handle the sensor.