

SGX Europe Sp. Z o.o. T: +48 (0) 32 438 4778 Building 11 Ligocka St. 103, 40-568 Katowice, Poland

E: sales.is@sgxsensortech.com www.sgxsensortech.com

SGX-4NH3-300 Datasheet

Industrial Ammonia (NH₃) Sensor

PERFORMANCE

FERFORMANCE		
Output signal	40 ± 15 nA / ppm	
Typical Baseline Range (pure air)	±2ppm NH₃ equivalent	
T90 Response Time	< 75 seconds	
Measurement Range	0 - 300 ppm	
Maximum Overload	500 ppm	
Linearity	Linear	
Repeatability	±10%	
Recommended Load Resistor	10 ohms	
Resolution (Electronics dependent)	2 ppm	

OPERATING CONDITIONS

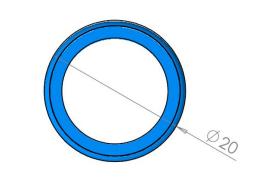
Temperature Range	-40°C to +50°C	
Pressure Range	800 to 1200 mbar	
Operating Humidity Range	15% to 90% RH	

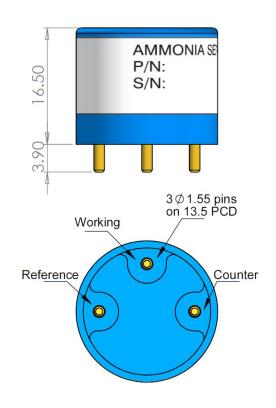
LIFETIME

Long Term Output Drift	< 20% per annum	
Recommended Storage Temp	0°C to 20°C	
Expected Operating Life	> 24 months in air	

OUTLINE

All dimensions are in mm All tolerances are ±0.15mm





INTRINSIC SAFETY DATA

Max at 2000ppm	0.3 mA	
Max o/c Voltage	1.3 V	
Max s/c Current	<1.0 A	

SGX Europe Sp. Z o.o. Building 11 Ligocka St. 103, 40-568 Katowice, Poland

T: +48 (0) 32 438 4778

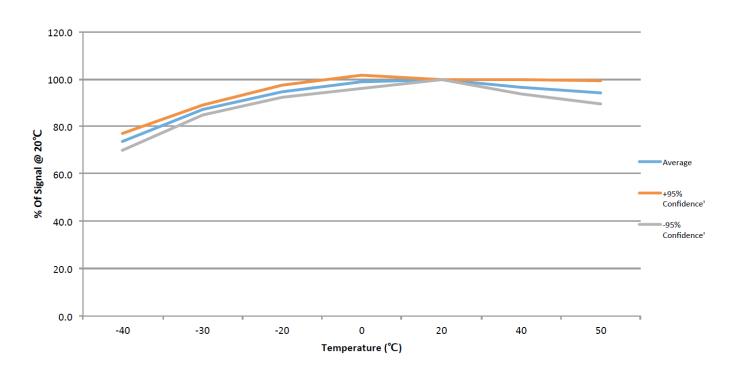
E: sales.is@sgxsensortech.com www.sgxsensortech.com

CROSS - SENSITIVITY DATA

GAS	CONCENTRATION	SGX-NH3-300
Carbon Monoxide	500ppm	0 ppm
Hydrogen Sulphide	25ppm	30 ppm
Sulphur Dioxide	20ppm	-6 ppm
Nitric Oxide	50ppm	0 ppm
Nitrogen Dioxide	5ppm	-5 ppm
Hydrogen	100ppm	0 ppm
Ethanol	100ppm	0 ppm
Carbon Dioxide	5000ppm	0 ppm

^{*} See Important Notes

Temperature vs Sensitivity





SGX Europe Sp. Z o.o. T: +48 (0) 32 438 4778 Building 11 Ligocka St. 103, 40-568 Katowice, Poland

E: sales.is@sgxsensortech.com www.sgxsensortech.com

IMPORTANT NOTES

- 1) Do not glue or solder to the connector pins as this may damage the sensor and thereby invalidate the warranty, please use PSB sockets.
- 2) Details on recommended connector pins can be found in the Frequently Asked Questions within the Gas Sensor section of the SGX website.
- 3) All performance specifications are based upon the following environmental conditions: 20°C, 50% relative humidity, 101kPa.
- 4) Cross Sensitivity Data is for information only. Calibration is recommended with target gas as the accuracy of calibration and measurement cannot be ensured.
- 5) The cross sensitivities are including but not limited to the gases stated in the table. It may respond to other gases.
- 6) The cross sensitivities may fluctuate between ± 30% and may differ from batch to batch or across sensor's life time.
- 7) The device is designed to be RoHS compliant.
- 8) Poisoning sensors are designed to operate in a wide range of harsh environments and conditions. However, it is important that exposure to high concentrations of solvent vapours is avoided, both during storage, fitting into instrument and operation.
- 9) When using sensors on printed circuit boards (PCB's), degreasing agents should be used prior to the sensor being fitted.

Warning:

By the nature of the technology used, any electrochemical gas sensor offered by SGX Europe Sp. z o.o. can potentially fail to meet specification without warning. SGX Europe Sp. z o.o. makes every effort to ensure the reliability of our products of this type, where life safety is a performance requirement of the product, we recommend that all sensors and instruments using these sensors are checked for response to gas before use. SGX Europe Sp. z o.o reserves the right to make product changes without notice. No liability is accepted for any consequential losses, injury or damage resulting from the use of this document or from any omissions or errors herein. The data is given for guidance only. It does not constitute a specification or an offer for sale. The products are always subject to a program of improvement and testing which may result in some changes in the characteristics quoted. As the products may be used by the client in circumstances beyond the knowledge and control of SGX Europe Sp. z o.o., we cannot give any warranty as to the relevance of these particulars to an application. It is the clients' responsibility to carry out the necessary tests to determine the usefulness of the products and to ensure their safety of operation in a particular application. Performance characteristics on this data sheet outline the performance of newly supplied sensors. Output signal can drift below the lower limit over.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Air Quality Sensors category:

Click to view products by Amphenol manufacturer:

Other Similar products are found below:

GMS-MSTH2.S.V.3 MO86571 MO86561 076074 01 DE800.A.1 MF010-2-LC1 MF020-2-LC3 KGZ10-5PIN GMS10SENSORS IR25TT

208280-0001 IR11GM IR12GM IR21BD GMS10-18C KGZ12 S-300L-3V-5000-SLEEP-UART MP7227-TC SGPC3-TR-2.5KS T6713-6H

POLOLU-1482 3.000.475 3.000.496 3.000.497 HPMA115S0-XXX SGPC3-2.5k T3032-2-10K-24-P VQ6MB INIR-CD-5% VQ23TB

IR11GJ VQ31MB IR11BR GP2Y1026AU0F VQ549ZD MHM501-00 MHM500-00A MHM305-01 MICS-4514 VQ548ZD-S SEN-09403

IR15TT MICS-5524 MICS-5914 MICS-2714 INIR-ME-100% T8100-D VQ21TB IR21EJ VQ603/2