



Ammonia (NH₃) Gas Sensor

Model: SISCO-GS-NH3-100



Performance parameters

Product model SISCO-GS-NH3-100
 Range 0-100 ppm
 Maximum load 200 ppm
 Sensitivity 160 ± 40 nA/ppm
 Baseline (20 °C) $< \pm 400$ nA
 Baseline drift < 2 ppm
 (-40 °C - 50 °C)
 Resolution 0.5 ppm
 Response time (T90.) < 90 s
 Linearity linearity to 200 ppm
 Long-term stability $< 2\%$ signal value/month

Working conditions

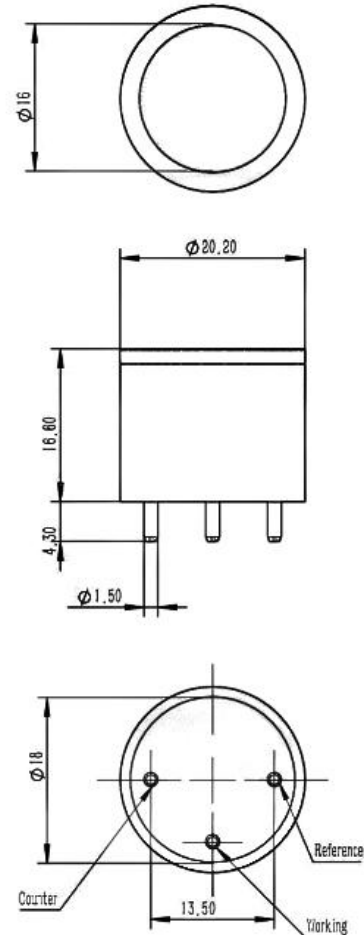
Working temperature -30 °C - 50 °C
 Operating humidity 15% - 90% RH (non-condensing)
 Working pressure 90 kPa - 110 kPa
 Bias 0 mV
 Storage time 6 months (in special box)
 Storage temperature 10 °C - 30 °C
 Service life 2 years in air
 Warranty period 12 months

Physical performance

Weight about 5g
 No bearing requirement

Sensor size

Outline Dimensions

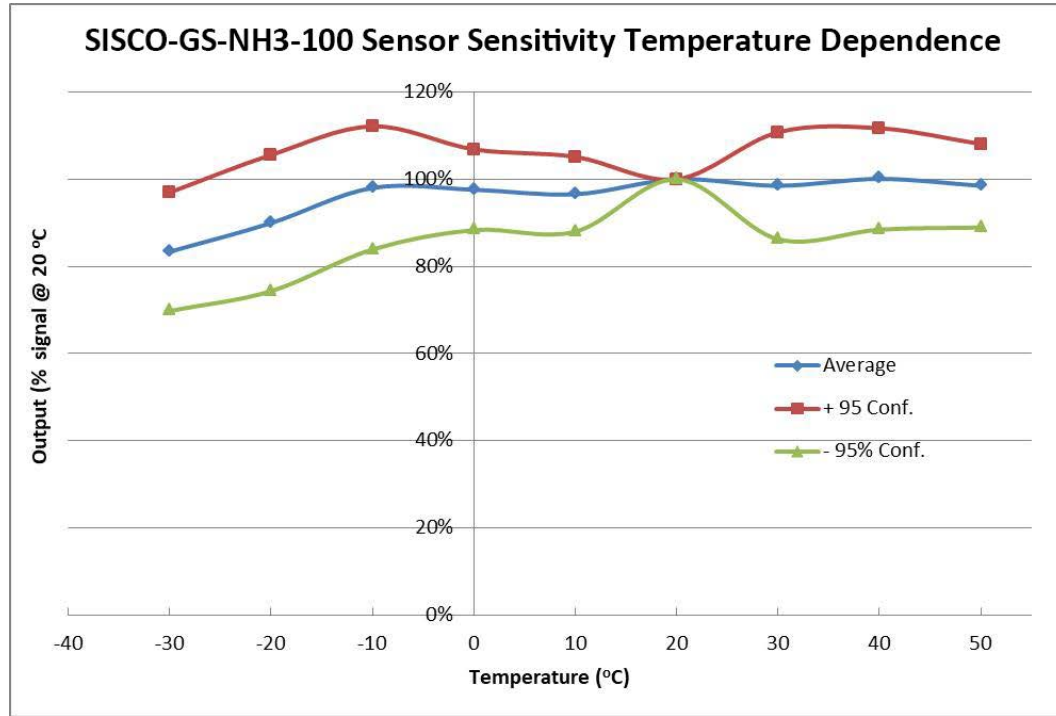


Unit: mm
 Unless otherwise specified, the dimensional tolerance is ± 0.2 mm

Precautions for use:

The electrode pins of the sensor should be connected correctly, otherwise the sensor will not work normally; no matter in storage or use, avoid using volatile organic solvents near the sensor, or contact with target gases beyond the range for a long time, which may damage the sensor; Avoid using adhesives directly on or near the sensor, and its solvent may damage the housing of the sensor.

Temperature effect



Cross sensitivity

Interference gas	Gas concentration used (ppm)	Displayed value (NH ₃) ppm
CO	50	0
CO ₂	100	0
H ₂ S	25	35
H ₂	1000	0
i-C ₄ H ₈	100	0

1. All the above performance specifications are measured under ambient conditions: temperature 20 °C, relative humidity 50% RH, and one atmospheric pressure.
2. It is recommended to use target gas for calibration. In the case of calibration with cross-sensitive gases, we do not guarantee the accuracy of calibration and measurement.
3. Cross sensitivity will fluctuate by 30%, and may vary with different production batches and sensor life.
4. The above-mentioned cross-sensitivity includes but is not limited to the above-mentioned gases, and the sensor may respond to other gases.

Safety instructions

This sensor is designed for safety-critical applications. In order to ensure the normal operation of the sensor and the instrument using the sensor, the appropriate concentration of target calibration gas should be used for ventilation detection before the sensor or instrument is used, otherwise it may cause personnel safety or property damage. Please do not dissect and disassemble the sensor without permission to avoid injury caused by leakage of electrolyte inside the sensor.