

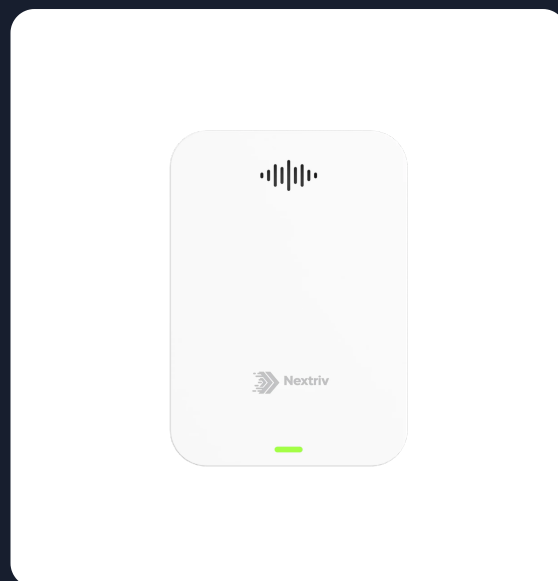
Nextriv Sense Gas

Ammonia and hydrogen sulphide detector

NX-SN-GAS

Nextriv Sense

A 4-in-1 odour detector: ammonia (NH_3), hydrogen sulphide (H_2S), temperature and humidity — objective hygiene control for restrooms and utility rooms. Solid-polymer electrochemical sensors measure gas concentrations with a resolution of hundredths and thousandths of a ppm, and on a threshold breach the device raises an on-site alarm with a buzzer and an LED indicator while reporting the event to the Nextriv platform. A moisture-protective electronics coating and a flame-retardant enclosure are built for steamed-up washrooms. Four replaceable lithium batteries last around 3 years with no cabling.



4-in-1

NH_3 , H_2S , temperature,
humidity

0.01 ppm

ammonia detection
resolution

~3 yrs

battery life

~15 km

open-terrain range

Key features

- Four parameters from a single device: ammonia (NH_3), hydrogen sulphide (H_2S), temperature and humidity — odour turned into measurable numbers
- Sensitive solid-polymer electrochemical sensors: 0–10 ppm NH_3 (0.01 ppm resolution) and 0–5 ppm H_2S (0.001 ppm resolution) — reacting long before the threshold of human discomfort
- Gas module lifetime of over 3 years with accuracy drift below 1% per month — credible measurements across the whole life cycle
- Local on-site threshold alarm: built-in buzzer and a traffic-light LED indicator — clear to everyone, no app required
- Full-fledged climate measurement: temperature $\pm 0.2^\circ\text{C}$ and humidity $\pm 2\%$ RH — one installation closes two topics
- Moisture-protective electronics coating and a flame-retardant PC + ABS enclosure — reliable operation in steamed-up washrooms
- Around 3 years on four replaceable lithium batteries — installation with no wall chasing or cabling
- Configuration over NFC from a smartphone; ultra-low-latency direct device-to-device control (e.g. ventilation) without a gateway

Technical specification

Measurement — ammonia (NH₃)

Measuring range	0...10 ppm
Accuracy	±5 % of full scale (within -40...35 °C)
Long-term stability	accuracy drift < 1% per month
Resolution	0.01 ppm
Sensing element	solid-polymer electrochemical

Measurement — hydrogen sulphide (H₂S)

Measuring range	0...5 ppm
Accuracy	±5 % of full scale (within -40...35 °C)
Long-term stability	accuracy drift < 1% per month
Resolution	0.001 ppm
Sensing element	solid-polymer electrochemical

Measurement — temperature

Measuring range	-40...85 °C
Accuracy	±0.2 °C
Resolution	0.1 °C

Measurement — relative humidity

Measuring range	0...100 % RH
Accuracy	±2 % RH
Resolution	0.5 % RH

Radio connectivity

Technology	long-range, low-power radio (LPWAN)
Radio band	EU868 (EU); regional variants: US915, AU915, AS923, IN865, KR920, RU864
Tx power	up to 16 dBm (EU868)
Receiver sensitivity	down to -137 dBm
Antenna	internal
Sensor-gateway range	up to approx. 2 km in built-up areas / approx. 15 km in open terrain
Communication	two-way — readings to the platform, remote configuration via downlink

Local indication	
LED indicator	1× status / alarm indicator
Acoustic alarm	1× built-in buzzer
Button	1× reset / reboot (external)

Device features	
Threshold alarms	on-device thresholds (buzzer + LED) + alert rules in the Nextriv platform
Direct control	ultra-low-latency device-to-device communication — e.g. ventilation control without a gateway
Configuration	mobile app over NFC; remotely via platform downlink
Gas module lifetime	over 3 years
Electronics protection	damp-proof coating — for operation in washroom conditions

Power	
Batteries	4× lithium Li-SOCl ₂ ER18505, 4,000 mAh, replaceable
Battery life	approx. 3 years — 10-min interval, 25 °C [1]

Enclosure and operating environment	
Operating temperature	-40...55 °C (gas detection accuracy specified up to 35 °C)
Ambient humidity	0...95 % RH, non-condensing
Ingress protection	IP30 (indoor use)
Housing	PC + ABS (flame retardant), white
Dimensions	120 × 85 × 32.5 mm (4.72 × 3.35 × 1.28 in)
Weight	221.4 g (batteries included)
Mounting	wall mounting — screws

Compliance and approvals	
Approvals	CE, FCC, EN 62368
Environmental	RoHS

Ordering information	
Product code (SKU)	NX-SN-GAS
System requirement	a Nextriv Hub gateway (e.g. NX-GW-MINI, NX-GW-PRO)

[1] Battery life determined under laboratory conditions — indicative value; the actual time depends on the reporting interval and radio conditions.

Specifications are subject to change without notice. The latest document versions are available in the download centre: nextriv.com/files. Questions: nextriv.com/contact.