

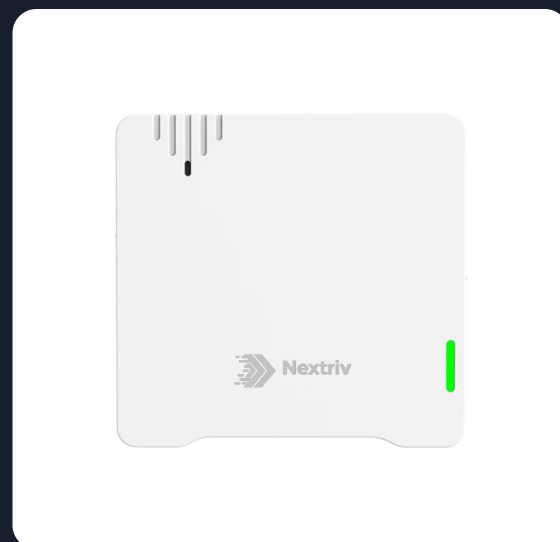
Nextriv Sense Noise

SPL and Leq noise level sensor

NX-SN-NSE

Nextriv Sense

A wireless noise level sensor reporting three metrics at once: the instantaneous level (SPL), the equivalent continuous level (Leq) and the maximum level (Lmax). It safeguards acoustic comfort and quiet-time policies — measuring only the sound level, never recording the content of conversations. Software-switchable A or C weighting matches the measurement to quiet and loud environments, and the built-in LED signals a threshold exceedance on the spot. Up to approx. 5 years on replaceable batteries and configuration with a single smartphone tap (NFC).



30–120 dB

measuring range

±3 dB

measurement accuracy

up to 5 yrs

battery life

~15 km

open-terrain range

Key features

- Three metrics at once: instantaneous level (SPL), equivalent continuous level (Leq) and maximum level (Lmax) — the complete set for acoustic comfort reports
- Software-switchable A or C frequency weighting — from quiet libraries to loud halls
- Fast time weighting (125 ms) captures impulsive noise: slams, impacts, short bangs
- Privacy by design: only the sound level is measured — zero recording, zero conversation content
- Built-in LED as a local threshold alarm — it works before the platform sends out notifications
- Up to approx. 5 years on two replaceable lithium batteries
- Configuration over NFC from a smartphone or remotely from the platform (downlink)
- One-minute mounting on a flat surface: screws or industrial 3M tape — no cables, no electrician

Technical specification

Measurement — sound level

Measuring range	30...120 dBA (A-weighting); 35...120 dBC (C-weighting)
Accuracy	±3 dB (0...45 °C)
Resolution	0.1 dB
Frequency range	30 Hz...8 kHz
Frequency weighting	A and C (software switchable)
Time weighting	fast (125 ms)
Reported values	instantaneous level (SPL), equivalent continuous level (Leq), maximum level (Lmax)
Sensing element	integrated measurement microphone

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); up to 22 dBm (US915)
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

Indicators and controls

Indicators	1× status and threshold-alarm LED
Button	1× power / reset

Device features

Threshold alarms	on-device thresholds with local LED signalling + alert rules in the Nextriv platform
Privacy	only the sound level is measured — no recording and no analysis of conversation content
Configuration	mobile app over NFC; remotely via platform downlink
Power on / off	NFC or button

Power	
Batteries	2× lithium Li-SOCl ₂ ER14505 (AA size), 2,700 mAh, replaceable
Battery life	approx. 3.3–5 years (fast time weighting disabled) / approx. 1.5–1.7 years (enabled) — 10-min interval, 25 °C, EU868 [1]

Enclosure and operating environment	
Operating temperature	-20...60 °C
Ambient humidity	≤95 % RH, non-condensing
Ingress protection	IP30 (indoor use)
Housing	PC + ABS, white
Dimensions	68 × 65 × 20.5 mm (2.68 × 2.56 × 0.81 in)
Weight	79.1 g (batteries included)
Mounting	on flat surfaces — screws or industrial 3M tape

Compliance and approvals	
Approvals	CE, FCC, Telec
Environmental	RoHS

Ordering information	
Product code (SKU)	NX-SN-NSE
Variants	EU868 band as standard (EU); regional band variants available on request
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, the time-weighting mode 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.