

Nextriv Sense Leak Spot

Spot water leak sensor

NX-SN-WLS

Nextriv Sense

A spot water-leak sensor with a 316 stainless-steel probe — an alarm at just approx. 5 mm of conductive liquid at the probe. Detection is contact-based, so a report fires only on physical contact between the electrodes and the liquid, and the device additionally measures ambient temperature and humidity. The sealed, UV-resistant IP67 enclosure and the -30...70 °C operating range also cover unheated basements and technical rooms. The replaceable battery lasts up to 10 years, and a local buffer of approx. 2,800 records backfills data after a connectivity outage.



~5 mm

liquid level that triggers the alarm

up to 10 yrs

battery life

IP67

ingress protection

~15 km

open-terrain range

Key features

- Contact detection of water and conductive liquids — an alarm at a level of just approx. 5 mm, practically zero false reports
- Probe with a 316 stainless-steel head on a 1.5 m cable (length configurable to order)
- Three measurements from one installation: leak + temperature + ambient humidity
- Direct triggering of actuators (e.g. a shut-off valve) — device-to-device communication with no gateway or server involved
- Buffer of approx. 2,800 records with automatic retransmission — gap-free history after connectivity outages
- UV-resistant IP67 enclosure — operation in harsh conditions, from -30 to 70 °C
- Up to 10 years on a replaceable 4,000 mAh battery (optional 8,000 mAh version)
- Configuration over NFC from a smartphone or remotely from the platform (downlink)

Technical specification

Leak detection	
Detected liquids	water and other conductive liquids
Trigger condition	liquid level of approx. 5 mm at the probe
Detection principle	contact-based, conductive principle — an alarm only on physical contact between the electrodes and the liquid

Measuring probe	
Head	316 stainless steel, white & silver
Cable	1.5 m (length configurable to order)
Probe mounting	screws or 3M tape

Measurement — temperature	
Measuring range	-30...70 °C
Accuracy	±0.3 °C (0...70 °C); ±0.6 °C (-30...0 °C)
Resolution	0.1 °C
Sensing element	digital MEMS

Measurement — relative humidity	
Measuring range	0...100 % RH
Accuracy	±3 % RH (10...90 % RH); ±5 % RH below 10 % and above 90 % RH
Resolution	0.5 % RH
Sensing element	digital MEMS

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 20 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
Direct communication	ultra-low-latency device-to-device mode — actuator control with no gateway or server involved

Device features	
Local buffer	approx. 2,800 records; automatic retransmission and data recovery after a connectivity outage
Threshold alarms	on-device thresholds + alert rules in the Nextriv platform
Direct control	triggering of actuators (e.g. a shut-off valve) with no server involved
Configuration	mobile app over NFC; remotely via platform downlink
Power on / off	NFC or button (internal)
Indicators	1× LED indicator (internal)
Button	1× power / reset (internal)

Power	
Battery	1× lithium Li-SOCl ₂ ER18505, 4,000 mAh, replaceable (optional 8,000 mAh version)
Battery life	over 10 years under favourable radio conditions; approx. 5.6 years at maximum range (EU868) — 10-min interval + 24 alarm events per day [1]

Enclosure and operating environment	
Operating temperature	-30...70 °C
Ambient humidity	0...100 % RH, non-condensing
Ingress protection	IP67, UV-resistant enclosure
Housing	transmitter: ABS + PC (flame retardant), white; probe: 316 stainless steel, white & silver
Dimensions	transmitter: 105.6 × 85.3 × 27 mm (4.16 × 3.36 × 1.06 in)
Mounting	transmitter: screws, 3M tape or cable ties; probe: screws or 3M tape

Compliance and approvals	
Approvals	CE, FCC, ISED, RCM, Telec, ICASA
Environmental	RoHS

Ordering information	
Product code (SKU)	NX-SN-WLS
Variants	4,000 mAh battery (standard) or 8,000 mAh; non-standard probe cable length to order — specify the variant when ordering
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 number of alarm events 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.