

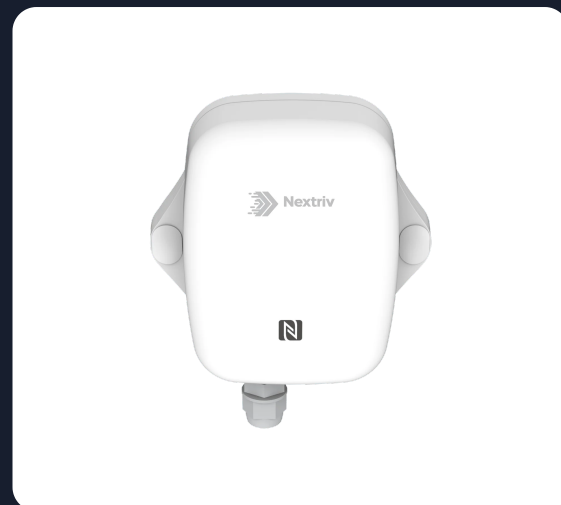
Nextriv Sense Leak Zone

Zone leak sensor with a sensing cable

NX-SN-WLZ

Nextriv Sense

A zone leak sensor with a sensing cable — 3 m as standard, longer runs to order — that detects water and other conductive liquids at any point along the cable's entire length. The alarm triggers at a liquid layer of approx. 5 mm, and once dried the cable returns to duty. The IP67, UV-resistant transmitter also measures temperature and humidity, and a local buffer of approx. 2,800 records backfills data after a connectivity outage. Configuration with a single smartphone tap (NFC), readings and alarms in the Nextriv platform.



3 m

sensing cable (longer runs to order)

IP67

transmitter ingress protection

> 10 yrs

battery life

~15 km

open-terrain range

Key features

- Liquid detection along the sensing cable's entire length — protection for zones and routes, not single points
- Cable 3 m as standard, longer runs to order; polyethylene jacket with steel reinforcement in a visible yellow-and-black colour scheme
- Reusable detection element — once dried, the cable goes back to work
- Three measurements from one installation: flooding, temperature (-30...70 °C) and relative humidity
- Direct triggering of actuators (a pump, a valve, a sounder) with minimal latency, bypassing the gateway and the server
- Buffer of approx. 2,800 records with automatic retransmission and data retrieval — gap-free history after connectivity outages
- UV-resistant IP67 enclosure and a -30...70 °C operating range — also for basements and outdoor facilities
- Configuration over NFC from a smartphone or remotely from the platform (downlink)

Technical specification

Measurement — leak detection	
Detected liquids	water and other conductive liquids (conductive principle)
Trigger condition	a 5 mm liquid layer at any point along the cable
Detection area	the entire length of the sensing cable
Detection element	reusable — once dried, the cable returns to duty

Measurement — temperature

Measuring range	-30...70 °C
Accuracy	±0.3 °C (0...70 °C); ±0.6 °C (-30...0 °C)
Resolution	0.1 °C

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 cable

Length	3 m as standard; longer runs to order
Construction	two detection conductors in a polyethylene (PE) jacket with steel-wire reinforcement
Colour scheme	yellow and black — visible during service work
Cable mounting	3M tape or cable ties, no special brackets

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

Device features

Local buffer	approx. 2,800 records; automatic retransmission and data retrieval after a connectivity outage
Threshold alarms	on-device thresholds + alert rules in the Nextriv platform
Direct control	direct device-to-device mode — triggering actuators (a pump, a valve, a sounder) with minimal latency, bypassing the gateway and the server
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 (8,000 mAh variant optional)
Battery life	over 10 years with fast radio transmission; approx. 5.6 years with maximum-range transmission (EU868) — 10-min interval + 24 alarm triggers per day [1]

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

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

Ordering information	
Product code (SKU)	NX-SN-WLZ
Variants	sensing cable 3 m as standard, longer runs to order; optional 8,000 mAh battery — 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 alarms 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.