

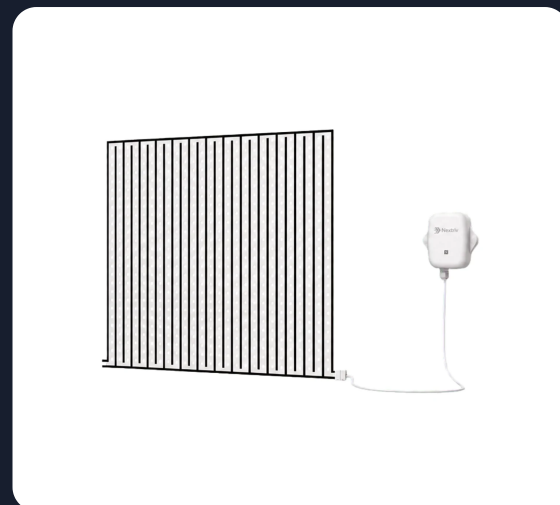
Nextriv Sense Leak Mat

Surface water leak sensor (membrane mat)

NX-SN-WLM

Nextriv Sense

A 40 × 40 cm membrane mat that detects water and other conductive liquids anywhere on its surface — protecting an entire zone rather than a single point. The printed membrane is only 0.25 mm thick, can be trimmed vertically, and is available in custom sizes to order. The UV-resistant IP67 transmitter operates from -30 to 70 °C, the replaceable battery provides up to approx. 10 years of service, and a 1,000-record local buffer with retransmission preserves history after connectivity gaps.



40 × 40 cm

detection surface

up to 10 yrs

battery life

IP67

transmitter ingress protection

1,000

local buffer records

Key features

- Detection of water and other conductive liquids across the entire 40 × 40 cm surface — zone protection instead of a single point
- A 0.25 mm printed membrane that can be trimmed vertically; custom sizes are available to order
- A 1,000 mm cable between the membrane and transmitter, with custom lengths available to order
- An alarm within seconds of conductive liquid touching the membrane
- A 1,000-record buffer with automatic retransmission after a connectivity gap
- UV-resistant IP67 transmitter — operation from -30 to 70 °C
- Up to approx. 10 years on a replaceable 4,000 mAh ER18505 battery; an 8,000 mAh variant is optional
- NFC configuration; the transmitter mounts with screws, 3M tape or cable ties, and the membrane with 3M tape

Technical specification

Leak detection	
Detected liquids	water and other conductive liquids
Detection area	the entire 400 × 400 mm membrane surface
Response time	an alarm within seconds of conductive liquid touching the membrane

Detection membrane

Construction	printed detection film
Dimensions	400 × 400 × 0.25 mm
Sizing	vertical trimming; custom sizes available to order
Cable	1,000 mm (custom lengths available to order)
Membrane mounting	3M tape

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	1,000 records; automatic retransmission after a connectivity gap
Configuration	contactless configuration over NFC
Reporting	configurable reporting interval and alarm reporting frequency

Power

Battery	1× replaceable lithium Li-SOCl ₂ ER18505, 4,000 mAh (8,000 mAh optional)
Battery life	up to approx. 10 years under favourable radio conditions (EU868, 25 °C) [1]

Enclosure and operating environment

Operating temperature	-30...70 °C
Ingress protection	IP67 (transmitter), UV-resistant enclosure
Transmitter dimensions	105.6 × 85.3 × 27 mm
Transmitter mounting	screws, 3M tape or cable ties
Membrane mounting	3M tape

Ordering information	
Product code (SKU)	NX-SN-WLM
Variants	4,000 mAh battery (standard) or 8,000 mAh; custom membrane sizes and cable lengths available to order

[1] Battery life is an indicative value; actual service life depends on configuration, radio conditions and operating temperature.

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