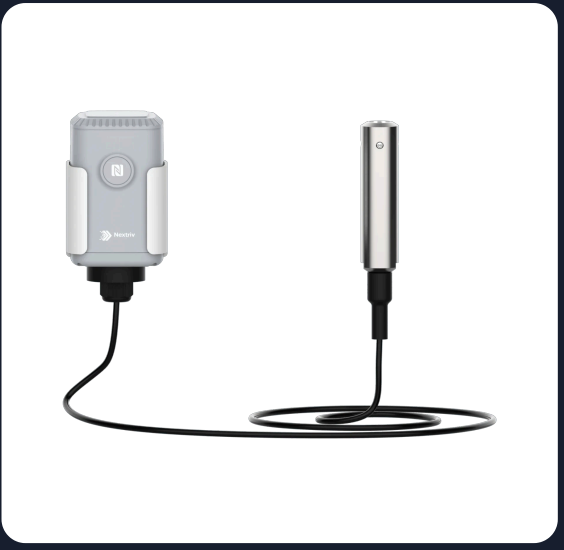
Nextriv Probe Liquid Level

Hydrostatic liquid level probe

NX-PR-LQI | Nextriv Probe

A hydrostatic submersible probe for liquid level measurement in tanks, wells and open water — the probe rests near the bottom and measures the pressure of the liquid column, so foam, waves and wind cannot disturb the reading. Standard ranges 0–3 m, 0–5 m and 0–10 m, customizable up to 200 m; accuracy ±0.5% of full scale. The stainless-steel probe is fully submersible (IP68) and the radio transmitter (IP67) runs up to 10 years on a single replaceable battery. A local measurement buffer with retransmission keeps the data history gap-free.



±0.5% FS	up to 10 yrs	IP68	up to 200 m
measurement accuracy	battery life	fully submersible probe	max measuring range

Key features

- Hydrostatic measurement near the tank bottom — immune to foam, waves, wind and rain that can fool non-contact methods
- Fully submersible probe (IP68) made of 304 stainless steel, corrosion-resistant
- Vented design (measurement relative to atmospheric pressure) and temperature compensation keep the reading stable all year round
- Range tailored to the tank: 0–3 m, 0–5 m or 0–10 m as standard, customizable up to 200 m; water and other liquids made to order
- Accuracy ±0.5% of full scale, 0.01 m resolution and long-term stability ≤ ±0.3% FS/year
- Up to 10 years on a single replaceable 19,000 mAh battery — a measurement point with no mains power
- Local buffer of 1,000 readings with automatic retransmission and data retrieval; threshold alarms with an immediate report
- Configuration over NFC from a smartphone, over USB-C from a PC or remotely via downlink; pole, wall or DIN-rail mounting

Technical specification

Measurement — liquid level	
Measurement method	hydrostatic — vented-gauge pressure transducer (measurement relative to atmosphere)
Measuring range	0…3 m / 0…5 m / 0…10 m (customizable up to 200 m)
Supported liquids	water (H_2O); other liquids made to order
Accuracy	±0.5% of full scale (FS)
Resolution	0.01 m
Long-term stability	≤ ±0.3% FS/year

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

Measuring probe	
Construction	304 stainless steel, silver; fully submersible
Probe ingress protection	IP68
Probe operating temperature	-20…70 °C
Probe dimensions	130 × ⌀27 mm (5.1 × ⌀1.1 in)
Cable	length at least 1–1.5 m longer than the measuring range — matched at order time
Probe weight	varies with cable length

Device features	
Local buffer	1,000 readings; automatic retransmission and data retrieval after a connectivity outage
Threshold alarms	on-device thresholds + alert rules in the Nextriv platform
Configuration	mobile app over NFC; PC software over USB-C; remotely via platform downlink
Power on / off	NFC or power/reset button (internal)
Indicators	1× LED indicator (internal)
Service port	1× USB-C (internal) — configuration and console

Power	
Battery	1× lithium Li-$SOCl_2$ ER34615, 19,000 mAh, replaceable
Battery life	up to 10 years (EU868) — 10-min interval, 25 °C [1]

Enclosure and operating environment	
Operating temperature	transmitter: -30…70 °C; probe: -20…70 °C
Ambient humidity	0…100% RH, non-condensing
Ingress protection	transmitter: IP67; probe: IP68
Housing	transmitter: ABS + PC, grey; probe: 304 stainless steel, silver
Transmitter dimensions	105.4 × 71 × 69.5 mm (4.1 × 2.8 × 2.7 in)
Transmitter weight	328 g (with battery and mounting bracket)
Mounting	pole, wall or DIN-rail mounting

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

Ordering information	
Product code (SKU)	NX-PR-LQI
Variants	measuring range 0–3 m / 0–5 m / 0–10 m (customizable up to 200 m); specify the liquid type and cable length 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 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.