

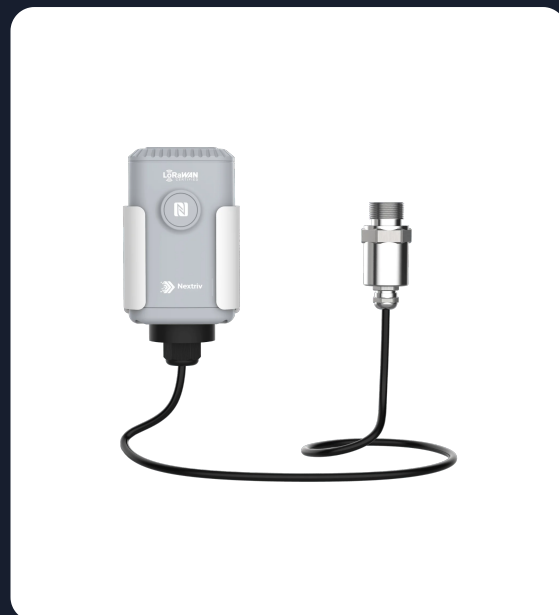
Nextriv Probe Pressure

Wireless 0–16 bar pressure sensor

NX-PR-PRES

Nextriv Probe

A wireless 0–16 bar pressure sensor for liquids and gases, supervising water mains, fire-protection systems, compressed air and process media. A 316L stainless-steel transducer with a G 1/2" fitting pairs with a radio transmitter in an IP67 enclosure, so the measurement point needs no signal cabling or mains power. Accuracy of $\pm 0.5\%$ of full scale and long-term stability of $\pm 0.3\%$ FS/year keep the measurement trustworthy for years, while the replaceable 19,000 mAh battery lasts up to 10 years. A local measurement buffer with retransmission keeps the data history gap-free, and alarm thresholds send an immediate report when pressure leaves the allowed band.



$\pm 0.5\%$ FS

measurement accuracy

0–16 bar

measuring range

up to 10 yrs

battery life

IP67

transmitter ingress rating

Key features

- 316L stainless-steel transducer with a G 1/2" fitting — screws into typical measurement ports, 1.5 m cable to the transmitter
- $\pm 0.5\%$ full-scale accuracy and 1 kPa (0.01 bar) resolution — even slow, subtle pressure changes are visible
- Long-term stability of $\pm 0.3\%$ FS/year and 150% FS overload capacity — measurement resilient to water hammer and the passage of time
- Liquids and gases in one device — a highly corrosion-resistant design
- Up to 10 years on a replaceable 19,000 mAh battery — a measurement point independent of mains power
- IP67 transmitter enclosure and IP65 transducer — built for harsh industrial conditions
- Buffer of 1,000 readings with automatic retransmission — gap-free history after connectivity outages
- Configuration over NFC from a smartphone, via USB-C or remotely from the platform (downlink); wall, pole or DIN-rail mounting

Technical specification

Measurement — pressure

Pressure type	vented gauge pressure
Measuring range	0–1600 kPa (0–16 bar)
Accuracy	±0.5% of full scale (FS)
Resolution	1 kPa (0.01 bar)
Overload capacity	150% FS
Long-term stability	±0.3% FS/year
Media	liquids and gases

Pressure transducer

Material	316L stainless steel, silver
Process connection	G 1/2" male thread
Cable to transmitter	1.5 m
Dimensions	60.5 × ø27 mm (2.38 × ø1.1 in)
Weight	187 g (with cable)
Ingress protection	IP65
Operating temperature	-10...70 °C

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

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
Direct control	triggering system controllers via device-to-device communication (without the platform)
Configuration	mobile app over NFC; PC software via USB-C; remotely via platform downlink
Service port	1× USB-C (inside the enclosure) — configuration and console
Indicators	1× status LED (inside the enclosure)
Button	1× power / reset (inside the enclosure)
Power on / off	NFC or button

Power	
Battery	1× lithium Li-SOCl ₂ ER34615, 19,000 mAh, replaceable
Battery life	up to 10 years — 10-min interval, 25 °C [1]

Enclosure and operating environment	
Operating temperature	transmitter: -30...70 °C; transducer: -10...70 °C
Ambient humidity	0...100 % RH, non-condensing
Ingress protection	transmitter: IP67; transducer: IP65
Transmitter housing	ABS + PC, grey
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	wall, pole or DIN rail

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

Ordering information	
Product code (SKU)	NX-PR-PRES
Set	radio transmitter + 316L stainless-steel pressure transducer with a 1.5 m cable
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.