Nextriv Sense Lux Pro

Light intensity sensor up to 100,000 lx

NX-SN-LUXP | Nextriv Sense

An outdoor light intensity sensor with a full 0–100,000 lx range — for crop supplemental lighting, lighting automation and sunlight logging. Two-part design: a transmitter in a watertight IP67 enclosure and a light probe in an aluminium IP65 head on a 3-metre cable, so the measurement point goes exactly where the light that matters falls. A replaceable 19,000 mAh battery lasts up to 10 years of 10-minute reporting, and local memory for 1,000 readings with automatic retransmission keeps the data history gap-free. Configuration by phone over NFC, by computer over USB-C or remotely from the Nextriv platform.

0–100,000 lx	±3 %	up to 10 yrs	IP67
measuring range	measurement accuracy	battery life	transmitter ingress rating

Key features

- Full 0–100,000 lx range with ±3 % accuracy and 1 lx resolution — from darkness to full sun, with no sensor saturation
- Two-part construction: transmitter + light probe on a 3-metre cable — electronics in a safe spot, measurement right at the crop
- Designed for harsh environments: IP67 transmitter, probe in an IP65 aluminium-alloy head, operation from -30 °C
- Up to 10 years on a single replaceable 19,000 mAh battery — no cabling and no service visits
- Local memory of 1,000 readings with automatic retransmission and data recovery — a gap-free sunlight history
- Threshold alarms with an immediate report once the set brightness is crossed
- Configuration over NFC from a smartphone, over USB-C from a PC or remotely from the platform (downlink)
- Three mounting options: pole/mast, wall or DIN rail

Technical specification

Measurement — light intensity	
Measuring range	0...100,000 lx
Accuracy	±3 %
Resolution	1 lx
Response time	approx. 1 s

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

Light probe	
Construction	two-part — radio transmitter + external light probe on a cable
Cable length	3 m
Probe head	aluminium alloy, white
Probe ingress protection	IP65
Probe operating temperature	-30…60 °C
Probe dimensions	64 × 58 × 34 mm (2.5 × 2.3 × 1.3 in)
Probe weight	280 g (with cable)

Device features	
Local buffer	1,000 readings; automatic retransmission and data recovery after a connectivity outage
Threshold alarms	on-device thresholds with an immediate report + 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 button (internal)
Indicators	1× status LED (internal)
Button	1× power / reset (internal)
Service port	1× USB Type-C (internal) — configuration and console

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; light probe: -30…60 °C
Ambient humidity	0…100 % RH, non-condensing
Ingress protection	transmitter: IP67; light probe: IP65
Housing	transmitter: ABS + PC, grey; probe: aluminium alloy, white
Transmitter dimensions	105.4 × 71 × 69.5 mm (4.1 × 2.8 × 2.7 in)
Transmitter weight	333 g (with battery and mounting bracket)
Mounting	pole/mast, wall or DIN rail

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

Ordering information	
Product code (SKU)	NX-SN-LUXP
Variants	regional radio-band versions (EU standard: EU868) — specify the variant when ordering
Mounting accessories	pole/mast mounting bracket included; DIN-rail kit optional
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.