

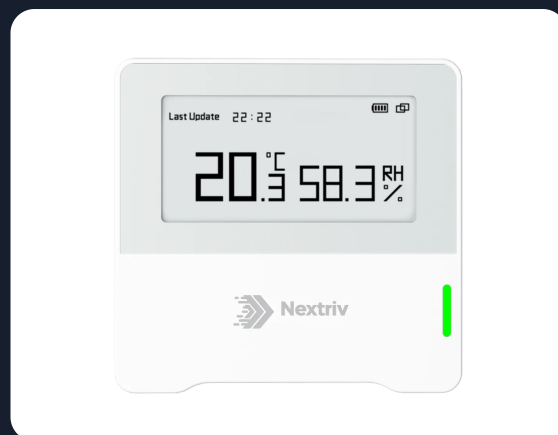
Nextriv Sense Display

Temperature and humidity sensor with an e-ink display

NX-SN-DISP

Nextriv Sense

A compact sensor for continuous indoor temperature and humidity monitoring. Readings are visible on-site on a paper-like e-ink display and remotely in the Nextriv platform. Over 7 years on replaceable batteries, configuration with a single smartphone tap (NFC) and a local measurement buffer that keeps the data history gap-free.


±0.2 °C

measurement accuracy

> 7 yrs

battery life

~15 km

open-terrain range

2.13"

e-ink display

Key features

- 2.13" e-ink display as readable as paper, light or dark theme (display variant)
- Over 7 years on two replaceable batteries — over 9 years for the display-free variant
- ±0.2 °C and ±2 % RH accuracy — high-precision digital MEMS sensing element
- Buffer of approx. 1,280 readings with automatic retransmission — gap-free history after connectivity outages
- Configuration over NFC from a smartphone or remotely from the platform (downlink)
- Smart display refresh and a hibernate mode extend battery life
- One-minute mounting: industrial 3M tape or screws, incl. anti-theft Torx

Technical specification

Measurement — temperature	
Measuring range	-20...60 °C
Accuracy	typ. ±0.2 °C (0...60 °C); ±0.3 °C (-20...0 °C)
Resolution	0.1 °C
Sensing element	high-precision digital MEMS

Measurement — relative humidity

Measuring range	0...100 % RH
Accuracy	typ. ± 2 % RH (at 25 °C)
Resolution	0.5 % RH
Sensing element	high-precision digital MEMS

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

Display and indicators

Display	2.13" black & white e-ink, light/dark theme (display variant); display operation 0...40 °C
Display modes	smart refresh hold on stable readings, scheduled hibernation
Indicators	status LED
Button	1x power / reset

Device features

Local buffer	approx. 1,280 readings; automatic retransmission after a connectivity outage
Threshold alarms	on-device thresholds + alert rules in the Nextriv platform
Configuration	mobile app over NFC; remotely via platform downlink
Power on / off	NFC or button

Power

Batteries	2x lithium Li-SOCl ₂ ER14505 (AA size), 2,700 mAh, replaceable
Battery life	over 7 years (with display) / over 9 years (without display) — 10-min interval, 25 °C [1]

Enclosure and operating environment

Operating temperature	-20...60 °C (e-ink display: 0...40 °C)
Ambient humidity	0...95 % RH, non-condensing
Ingress protection	IP30 (indoor use)
Housing	PC + ABS, white
Dimensions	68 × 65 × 20.5 mm (2.68 × 2.56 × 0.81 in)
Mounting	wall mounting — industrial 3M tape or screws (incl. anti-theft Torx)

Compliance and approvals

Approvals	CE, CE (RED), FCC, ISED
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Ordering information

Product code (SKU)	NX-SN-DISP
Variants	with an e-ink display or display-free (longer battery life) — 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 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.