

Nextriv Control Plug

Smart plug with energy metering

NX-AC-PLUG

Nextriv Control

A smart pass-through socket for switching any electrical appliance on or off remotely and metering its energy use. It reports voltage, current, active power, power factor and cumulative kWh separately for every connected load. Mains-powered, it listens for commands continuously, so instructions from the Nextriv platform execute almost instantly. Schedules, an overload alarm, a power-loss alert and one-tap smartphone configuration (NFC) make it a ready-made building-automation component — no electrician and no changes to the installation.


16 A

load rating (EU variant)

typ. ±3 %

energy metering accuracy

~15 km

open-terrain range

100–250 V AC

 mains-powered — no
batteries

Key features

- Remote on/off switching of any appliance — a pass-through plug, no electrician and no changes to the installation
- Full energy sub-meter: voltage, current, active power, power factor and a kWh counter for the connected load
- Continuous listening thanks to mains power — platform commands execute almost instantly
- Schedules and delayed switching — automatic after-hours cut-off of appliances
- Overcurrent protection with an overload alarm plus a power-loss alert (built-in capacitor)
- Group control (multicast) and a local-button lock — access control in public spaces
- Ultra-low-latency direct device-to-device scenarios — triggered by other Nextriv sensors
- Configuration over NFC with a smartphone tap or remotely via platform downlink

Technical specification

Measurement — electrical parameters

Measured quantities	voltage (V AC), current (mA), active power (W), power factor (%), cumulative energy (kWh)
Measurement accuracy	typ. ±3 %, max. ±5 % (optionally ±1 % as a special build)

Switching and load rating

Rated load	up to 16 A (EU variant, Type F); regional variants 10–16 A
Operating voltage	100–250 V AC, 50–60 Hz
Control	local button on the housing or remotely from the platform
Protection	overcurrent protection with an overload alarm

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 22 dBm (US915)
Receiver sensitivity	down to -137 dBm
Antenna	internal
Device–gateway range	up to approx. 2 km in built-up areas / approx. 15 km in open terrain
Receive mode	continuous listening (mains-powered) — commands execute almost instantly
Communication	two-way — readings to the platform, remote control and configuration via downlink
Direct communication	ultra-low-latency device-to-device, without the gateway — triggered by other Nextriv sensors

Device features

Schedules	delayed switching and on/off schedules
Alarms	overload (overcurrent) alarm; power-loss alert — a built-in capacitor sustains sending the notification
Group control	multicast — one command switches multiple sockets at once
Button lock	protection against unauthorised switching
Configuration	mobile app over NFC; remotely via platform downlink
Indicators	1× network/power status LED
Button	1× load power on/off or reset

Power

Power supply	from the mains socket, 100–250 V AC, 50–60 Hz — no batteries
Backup	built-in capacitor — enables sending a power-loss alert

Enclosure and operating environment

Operating temperature	-20...+60 °C (-4...+140 °F)
Ambient humidity	10...90 % RH, non-condensing
Ingress protection	IP20 (dry indoor spaces)
Housing	polycarbonate, UL94 V-0 flammability rating, white
Dimensions	110 × 62.3 × 34.6 mm (4.33 × 2.45 × 1.36 in), excl. the plug [1]
Weight	117.5 g

Compliance and approvals

Approvals	CE, FCC, RCM, SAA, UKCA
Environmental	RoHS

Ordering information

Product code (SKU)	NX-AC-PLUG
Variants	EU socket, 16 A (Type F); other regional standards: FR 16 A (Type E), UK 13 A (Type G), US 15 A (Type B), AU 10 A (Type I), CN 10 A / 16 A — specify the variant when ordering
System requirement	a Nextriv Hub gateway (e.g. NX-GW-MINI, NX-GW-PRO)

[1] Dimensions exclude the mains plug; plug dimensions vary slightly with the socket standard.

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