PowerCable REST 101x

NETIO PowerCable REST 101x is a smart 230V/16A extension cord with WiFi. With a simple click in the web interface, the output can be switched on/off and the measured values are displayed (A, V, W, TPF, kWh, Hz, °).

The product features an open API interface for integration with other systems. The output socket can be metered and controlled with one of the ten supported protocols (XML/ JSON, URL API, SNMP, Modbus/TCP, MQTT and more).

- WiFi connection to a LAN
- Output can be switched on/off/reset
- Electricity metering and reporting, 7 measured values (kWh, A, V, W, Hz, TPF, °).
- **ZCS** (Zero Current Switching)
- **Open API:** XML, JSON, Modbus/TCP, MQTT and more

- **NETIO Cloud:** Paid service
- **NETIO Mobile2:** Mobile application

- Easy installation, automatic "WiFi reconnect"
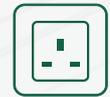
DE	FR	CH	C13/C14	UK
101F	101E	101J	101S	101G

Output can be controlled from the web interface, Open API, mobile application or paid NETIO Cloud service.

Thanks to **Open API** (JSON, Modbus/TCP, SNMP, MQTT and more), it can be connected to 3rd party applications that can use the PowerCable REST to measure energy consumption and control the output.

NETIO Cloud is a SSL-secured service for controlling the output from anywhere (Web or Cloud API).

AV drivers make it easy to connect NETIO sockets to professional Audio/Video control systems such as Neets, Crestron, Control4, ELAN and more.

Scheduler function (time based switching) works locally, even without an Internet connection.

Control of electrical sockets over a LAN from third-party system

Consumption metering at individual sockets, e.g. for diagnostics or predictions

Metering and control from superior systems (Node-RED, SCADA, Cloud services, ...)

Switching audiovisual equipment ON/OFF (beamers, amplifiers, TVs, ...)

Drivers for AV media/installations (Control4, ELAN, Crestron, Neets ...)

Central web interface (NETIO Cloud)

FEATURES

- **101x: Several versions of power sockets**
  - 101 F (DE "Schuko" – most of Europe)
  - 101 E (FR – France, Poland, Czechia, Slovakia)
  - 101 J (CH – Switzerland)
  - 101 S (IEC-320 C13/C14)
  - 101 G (UK – United Kingom)
  - 101 Y (input CEE 7/7, output IEC-320 C13)

- **Socket control options:**
  - Push-button
  - WEB browser
  - Open API
  - Mobile application: NETIO Mobile2
  - NETIO Cloud (TLS security)

- **Power measurements**
  - Current [A]
  - Voltage [V]
  - Consumption [kWh]
  - Output power [W]
  - TPF (True Power Factor)
  - Phase shift [°]
  - Frequency [Hz]
  - Accuracy: 1%

- **Open API (protocols)**
  - JSON over http
  - Modbus/TCP
  - MQTT-flex
  - Telnet
  - SNMP (SNMP v1/v3)
  - XML over http
  - URL API - http get

- **Supported protocols:** HTTP, DNS, NTP, DHCP, ICMP, uPNP, SNMP, MQTT, Modbus/TCP

- **IOC** (Independent Output Control): The output state is unaffected by firmware update
- **PowerUp State:** Default output state (On/Off/Last)
- **ZCS (Zero Current Switching):** The relay is switched when current crosses the zero level.
- **Scheduler function:** Time based switching

SPECIFICATIONS

POWER

- Input: 230V (110V/230V for 101S)
- Output: On/Off (relay, SPST-NO)
- Maximum load: 16A for 101E and101F;
  10A for 101J,101S and 101Y; 13A for 101G
- Internal consumption: 1.2 W

INTERFACES

- WiFi: 802.11 b/g/n; 2.4GHz
- The installation does not require any Mobile App or cloud
- 1x push-button
- 2x LED indicator
- NFC

PACKAGE CONTENTS

- NETIO PowerCable REST 101x
- QIG - Quick Installation Guide

DIMENSIONS/WEIGHT

- Device: 180x40x30 mm + 2x cable
- Cables: 2x0.55 m
- Package: 260x93x100 mm / 0.4 Kg

OPERATING CONDITIONS

- Temperature: -10 °C to +65 °C
- Max current: 16A up to 30°C, max 5A for 65°C
- For indoor use only (IP30)

STANDARDS: RED CE, NV 426/2016, 2014/53/EU, EN 50581: 2012, EN 300328, EN 62311:2008, EN 301489-1, EN 60950-1

AVAILABLE MODELS

101F	101E	101J	101S	101Y	

PowerCable REST 101F	101F is the „DE" Schuko version for most of EU.
PowerCable REST 101S	101S is IEC-320 C13/C14 version. International use, max 10A.
PowerCable REST 101E	101E is the „FR" version for France, Czech republic, Slovakia and Poland.
PowerCable REST 101J	101J is the „CH" version for Switzerland, max 10A.
PowerCable REST 101G	101G is the „UK" version for United Kingdom, max 13A.
PowerCable REST 101Y	101Y is connection cable with Europlug input (CEE 7/7) and IEC-320 C13 output, max 10A.