PowerCable REST 101x

REST
JSON/XML

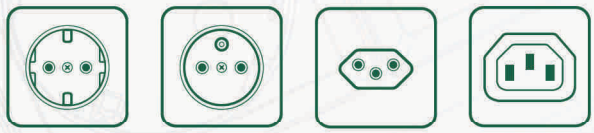
NETIO PowerCable, REST version, is a smart 230V/16A extension cord with WiFi. With a simple click in the web interface, the output can be switched on/off and the measured values displayed (A, V, W, TPF, kWh, Hz, °).

The product features an open inetrface REST API for integration with other systems. The output socket can be metered and controlled with one of the 3 supported http-based protocols – XML/ JSON or URL API.

- WiFi connection to a LAN
- Output can be switched on/off, power-cycled
- Electricity metering and reporting, 7 measured values (kWh, A, V, W, Hz, TPF, °).
- **ZCS** (Zero Current Switching)

- **XML** and **JSON**: metering and output control using http get/post.
- **URL API**: output control using http get.

- Easy installation, automatic "WiFi reconnect"



DE 101F | **FR 101E** | **CH 101J** | **C13/C14 101S**

PowerCable REST is a smart WiFi power socket that can be installed by an ordinary user. With its open API, it can be connected to 3rd party applications that can use the PowerCable REST to measure energy consumption and control the output.

Thanks to WiFi technology, smart power sockets can be installed even at places where LAN (Ethernet) is inaccessible. A WiFi connection is more readily available, although it may be less reliable. PowerCable REST provides a "WiFi reconnect" - set of functions for reliable connections.

REST protocols based on http are suitable for professional environments where ports and protocols other than http may be restricted.

CONTROL OF ELECTRICAL SOCKETS OVER A LAN FROM THIRD-PARTY SYSTEM

CONSUMPTION METERING AT INDIVIDUAL SOCKETS, E.G. FOR DIAGNOSTICS

METERING AND CONTROL WITH NODE-RED (AN29, AN30, AN31)

SWITCHING AUDIOVISUAL EQUIPMENT ON/OFF (BEAMERS, AMPLIFIERS,...)

ENERGY SAVINGS

FEATURES

- **101x: Several models for different markets**
  - 101F (DE "Schuko" – most of Europe)
  - 101E (FR – France, Poland, Czechia, Slovakia)
  - 101J (CH 10A max – Switzerland)
  - 101S (IEC-320 C13/C14 10A max)

- **Configuration over the WEB**
- Support for **open REST protocols**
  1) XML over http (read-write)
  2) JSON over http (read-write)
  3) URL API over http (write)
- **IOC** (Independent Output Control) – output state is unaffected by firmware update
- HTTPS: Yes (4Q 2019)

- **Power measurements**
  - Current [A]
  - Volrtage [V]
  - Consumption [kWh]
  - Output power [W]
  - TPF (True Power Factor)
  - Phase shift [-180° to +180°]
  - Frequency [Hz]
  - Measurement accuracy: 1% (25°C)

- **Socket control options**
  - Push-button
  - WEB browser
  - One of the three REST protocols
  - Mobile App (3Q 2019)

- **Protocols:** HTTP, DNS, NTP, DHCP, ICMP

SPECIFICATIONS

POWER

- Input: 230V
- Output: On/Off (relay)
- **ZCS** (Zero Current Switching): Yes
- Maximum load: 16A (10A for 101J and 101S)
- Internal consumption: 1.2 W
- Default output state: On/Off/Last state

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

PACKAGE CONTENTS

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

DIMENSIONS/WEIGHT

- Device: 180x40x30 mm + 2x cabel
- Cabels: 2x0,85 m
- Package: 260x93x100 mm / 0,5 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

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.

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