

# PowerCable Modbus 101x

**NETIO PowerCable Modbus is industrial version, smart extension cord with WiFi connectivity. The output power socket can be turned on/off over the Web, using the Modbus/TCP, Telnet, Mobile app or NETIO cloud.**

**PowerCable 101x also measures power consumption (A, kWh, TPF).**

**Different power socket variants are distinguished by the last letter in the model designation – the “x” in 101x.**

- WiFi connection to a LAN
  - Switching output On/Off
  - Electricity metering and reporting (A, kWh, V, Hz, W, TruePF).
  - **ZCS** (Zero Current Switching) for safe control of connected appliances.
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- **NETIO Cloud:** Paid service
  - **NETIO Mobile 2** app
  - Supports Modbus/TCP protocol, Telnet or SNMPv1
  - Includes an IP filter to ensure basic security of the Modbus/TCP protocol.
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- Easy installation, automatic WiFi reconnect
  - 5 versions: DE, FR, CH, UK, IEC-320 (C13/C14)



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

PowerCable Modbus 101x can meter and control an electrical socket using the Modbus/TCP or Telnet. It is easy to connect to a local WiFi, no mobile application is needed.

The built-in IP filter can restrict Modbus/TCP access to specific IP address range. We supply different versions for different markets. The “x” in the 101x designation indicates the electrical socket and plug type.



**Controlling electrical sockets over LAN from a PLC**



**Metering of individual sockets in a Scada system**



**Monitoring of electrical machinery**



**Electricity consumption monitoring**



**Energy savings**



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



**Central web interface (NETIO Cloud)**

## 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)
  - 101G (UK 13A max - United Kingdom)

- **Configuration over the Web**
- **ZCS** (Zero Current Switching) - recommended for electric appliances with high Inrush Current.
- **IOC** (Independent Output Control) – Output state is not affected during FW upgrade.
- Supports **Modbus/TCP** protocol, **Telnet** or **SNMPv1**
- **IP filter for access security** (IP address range)

### Electrical measurements

- Current [A]
- Voltage [V]
- Consumption [kWh]
- Power [W]
- TPF (True Power Factor)
- Frequency [Hz]
- Accuracy: 1%

### Socket control options:

- Push-button
- WEB browser
- Modbus/TCP protocol or Telnet

- **NETIO Mobile2:** Mobile app
- **NETIO Cloud:** Paid service (MQTTs security)

**Supported protocols:** HTTP, DNS, NTP, DHCP, ICMP

## AVAILABLE MODELS



### PowerCable Modbus 101F

101F is the “DE” version (Schuko) for most EU countries.

### PowerCable Modbus 101S

101S is the EC-320 C13/C14 international version, max 10A.

### PowerCable Modbus 101E

101E is the “FR” version for France, Czech Republic, Slovakia and Poland.

### PowerCable Modbus 101J

101J is the “CH” version for Switzerland, max 10A.

### PowerCable Modbus 101G

101G is the “UK” version for United Kingdom, max 13A.

## SPECIFICATIONS

### POWER

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

### INTERFACES

- WiFi: 802.11 b/g/n; 2.4GHz
- NFC configuration
- 1x push-button
- 2x LED indicator

### PACKAGE CONTENTS

- NETIO PowerCable Modbus 101x
- QIG – Quick Installation Guide

### DIMENSIONS / MASS

- Device: 180 x 40 x 30 mm + 2x cable
- Cables: 2x 0.55 m
- Package: 260 x 93 x 100 mm / 0.4 Kg

### OPERATING CONDITIONS

- Temperature: -10°C to +65°C
- Max current: 16A up to 30°C, max 5A at 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