

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 or using the Modbus/TCP or Telnet. 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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- No mobile app needed to install the device and connect it to a WiFi network.
 - Supports Modbus/TCP protocol or Telnet .
 - 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 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 A LAN FROM A PLC



METERING OF INDIVIDUAL SOCKETS IN A SCADA SYSTEM



MONITORING OF ELECTRICAL MACHINERY



ELECTRICITY CONSUMPTION MONITORING



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)
 - 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 or **Telnet**
- **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% (25°C, min 0.1A)

Socket control options:

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

Supported 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: Max 2 W
- Default 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

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.