PowerCable Modbus 101x

NETIO PowerCable, Modbus/TCP version, is a smart 230V/16A extension cord with WiFi connectivity. The output power socket can be turned on/off over the Web or using the Modbus/TCP protocol. 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.
- No mobile app needed to install the device and connect it to a WiFi network.
- Supports the standard Modbus/TCP protocol.
- Includes an IP filter to ensure basic security of the Modbus/TCP protocol.
- Easy installation, automatic WiFi reconnect
- 4 versions: DE, FR, CH, IEC-320 C13/C14)

PowerCable Modbus can meter and control an electrical socket using the Modbus/TCP industrial protocol. 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.
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**
    - 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
    - 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: 3% (25°C, min 0.1A)

- **Socket control options:**
  - Push-button
  - WEB browser
  - Modbus/TCP protocol

  **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
  - The installation does not require any mobile app
  - 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 0.85 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)


AVAILABLE MODELS

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

- **PowerCable Modbus 101S**
  101S is the IEC-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.