PowerCable MQTT 101x

MQTT

NETIO PowerCable, MQTT version, is a smart 230V/16A extension cord with WiFi. Thanks to MQTT-flex, after powering up the device automatically connects to the selected cloud service which can then control the output (On/Off) and access all consumption readings (A, V, W, TPF, kWh, Hz, °).

As a unique feature, the product offers configurable and open API for cloud services and NFC pre-config.

Output is controllable via web interface, Open API, mobile application or NETIO Cloud (service).

- 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, °)

- **MQTT:** Standard protocol supported
- **MQTT-flex:** Flexible configuration of MQTT data structure and transmission period
- **SNMPv1** for reading only

- NFC configuration and installation in 60 seconds
- Industrial features, WiFi reconnect
- **ZCS** (Zero Current Switching)
- Socket types: DE, FR, CH, UK, IEC-320 C13/C14

PowerCable MQTT is a smart WiFi power socket that can be installed by an ordinary user. Thanks to open API, it can be connected to any MQTT-based third-party local or cloud application. NETIO Cloud is also supported.

WiFi socket pre-configured for your service

PowerCable MQTT 101x can be pre-configured for your cloud service even without unpacking. Simply "sweep" with NFC to configure it and ship it off to your customer. When the customer powers up the device, it becomes visible in your portal.

Industrial product

Thanks to WiFi technology, smart power sockets can be installed even at places where LAN (Ethernet) is inaccessible. PowerCable supports "WiFi reconnect" – a set of functions for ensuring a reliable connection.

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

Control of electrical sockets over WiFi from third-party cloud services

Electricity consumption metering, diagnosing connected appliances

Switching audiovisual equipment on/off (beamers, TV, amplifiers, …)

Energy savings

Central web interface (NETIO Cloud)

FEATURES

- **101x:** Several models for different markets
  - 101**F** (DE "Schuko" – most of Europe)
  - 101**E** (FR – France, Poland, Czechia, Slovakia)
  - 101**J** (CH 10A max - Switzerland)
  - 101**G** (UK 13A max – Great Britain)
  - 101**S** (IEC-320 C13/C14 10A max)

- Configuration over the Web
- **NFC pre-config:** Pre-configuration for your cloud service
- **SSL support** (HTTPs push, MQTT)
- MQTT-flex - Trigger value reduces the volume of transferred data)
- Supported cloud communication protocols
  - **MQTT-flex**
  - **JSON http(s) push**
  - **XML http(s) push**
  - **SNMPv1** for reading

- **ZCS** (Zero Current Switching)
- **IOC** (Independent Output Control)
- Electrical measurements
  - Current [A]
  - Voltage [V]
  - Consumption [kWh]
  - Output power [W]
  - TPF (Real Power Factor)
  - Phase shift [-180° to +180°]
  - Frequency [Hz]
  - Measurement accuracy: 1%

- Socket control option:
  - Push button
  - WEB browser
  - NETIO Mobile 2: Mobile app
  - One of the M2M API protocols
  - NETIO Cloud

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
- 1x push-button
- 2x LED indicator
- NFC

PACKAGE CONTENTS

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

DIMENSIONS/WEIGHT

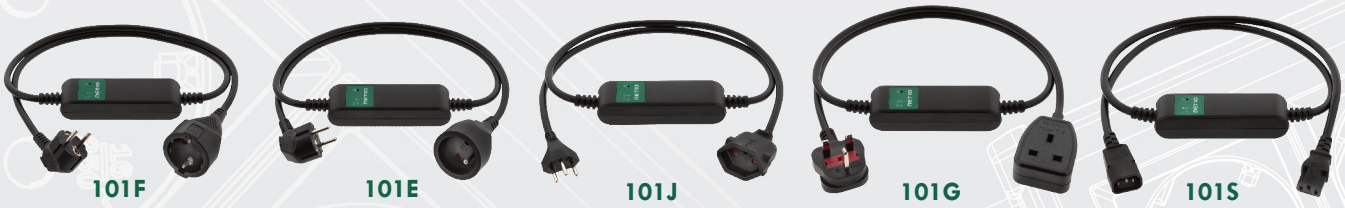
- Device: 180x40x30 mm + 2x cable
- Cables: 2x0.55 m
- Package: 260x93x100 mm / 0.4 Kg

OPERATING CONDITIONS

- Temperature -10 °C to 65 °C
- Max current: 16A (at 65°C max 5A)
- 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

AVALIABLE MODELS



PowerCable MQTT 101F	101F is the “DE” version (Schuko) for most EU countries.
PowerCable MQTT 101E	101E is the “FR” version for France, Czech Republic, Slovakia and Poland.
PowerCable MQTT 101J	101J is the “CH” version for Switzerland, max 10A.
PowerCable MQTT 101G	101G is the "UK" version for United Kingdom, max 13A.
PowerCable MQTT 101S	101S is the EC-320 C13/C14 international version, max 10A.