NETIO PowerPDU 4C

PowerPDU 4C controls and measures four IEC-320 C13 power outlets. 2 LAN ports (embedded Ethernet switch) and a serial port (RS-232). PowerPDU 4C measures power consumption (A, kWh, TPF, W, V, Hz) on each power outlet individually. NETIO Cloud service for remote output switching.

- 4x IEC-320 C13 power outlet (110/230V)
- 2x Ethernet (LAN / SWITCH)
- Consumption measurement for each outlet

- Open API (13 protocols)
- NETIO Cloud
- Scripting language (Lua)
- Serial port (RS-232)

- IP Watchdog (PING-based restart)
- Scheduler function (timer / calendar)

Each power output can be controlled from the device´s Web interface, Mobile app, button, NETIO Cloud or using various Open APIs (protocols : http XML/JSON, Modbus/TCP, MQTT, SNMP v3, Telnet and more).

Each power output C13 can be automatically switched on/off according to a time schedule (Scheduler function), or by the IP WatchDog function that detects a PING response. As a unique feature, the device is user-programmable in the Lua scripting language.

Electrical parameters are measured with high accuracy at each output (A, W, kWh, TPF, V, Hz).

The device features 2 LAN ports (embedded Ethernet switch) and a serial port (RS-232) that can be controlled via custom Lua script.

Controlling power to IT infrastructure (servers, KVM, routers)

Central web interface for multiple products (NETIO Cloud)

Autonomous restart of disconnected microwave links

Industry – integration with 3rd-party systems

Energy savings

Drivers for AV media/installations (Neets, Crestron, Control4, …)

FEATURES

- 4x power output: IEC-320 C13, each controlled individually
- **Output control options:**
  - Buttons
  - WEB browser
  - Mobile App (NETIO Mobile 2)
  - Open API (13 protocols)
  - Lua script
  - NETIO Cloud (paid secure service)

- Built-in LAN switch (2x RJ-45)
- RS-232 serial port (can be controlled via Lua)

- **ZCS** (Zero Current Switching) - The relay is switched when the current is crossing zero (reduces Inrush Current effect)
- NETIO Mobile 2 - mobile application
- Scheduler function - a smart calendar
- IP Watchdog function - autonomous ping restarter
- FW upgrade over web interface

- **Open API (protocols)**
  - Telnet (KSHELL)
  - SNMP v1 + v3
  - Modbus/TCP
  - MQTT
  - JSON over http(s)
  - URL API – http get
  - XML over http(s)
  - Lua active client
- Supported protocols: http, https, SMTP, DNS, NTP, uPNP, DHCP, SNMP, MQTT, ICMP, Modbus/TCP

SUPPORT FOR USERS AND DEVELOPERS

- **NETIO Wiki** - library for developers
- **ANxx** (Application Notes) with examples
- **NETIO Drivers** - for AV control systems

LUA – custom scripts

NETIO PowerPDU 4C supports Lua scripting language. Custom scripts to control individual outlets can be written over the WEB interface.

Lua

SPECIFICATIONS

POWER

- Power input: IEC-320 C14 (110/230V AC) 10A
- Power output: 4x IEC-320 C13 / 10A
- Output: On/Off (relay SPST-NO, IOC)
- **ZCS** (Zero Current Switching): Yes
- Internal consumption: 2-5 W
- **PowerUp state**: On / Off / Last state
- **PowerUp delay**: Delay between switching outputs

INTERFACES

- 2x LAN 10/100 Mbps (RJ-45)
- Integrated Ethernet switch
- RS-232 (RxD, TxD, GND) – terminal block
- 4x button for individual outputs
- LED indicators
- Main power switch

ELECTRICAL MEASUREMENTS

- 4x Current [A]
- 4x Consumption [kWh]
- 4x Power [W]
- 4x TPF (True Power Factor)
- Frequency [Hz]
- Voltage [V]
- Accuracy: <1% (25°C)

PACKAGE CONTENTS

- NETIO PowerPDU 4C
- QIG (printed Quick Installation Guide)
- Power cable according to the ordering code

DIMENSIONS / WEIGHT

- PowerPDU 4C: 220 x 40 x 120 mm / 0.8 kg
- Package: 325 x 74 x 224 mm / 1.15 kg

OPERATING CONDITIONS

- Temperature -20 °C to 65 °C
- For indoor use only (IP30)

EN 61010-1 ed.2:2011
EN 61326-1 ed.2:2013
EN 55011 ed.3:2010

NETIO PowerPDU 4C	LAN PDU with 4 power outputs energy measurment and control. Serial port and custom Lua scripts.
NETIO RM1 4C	A 19" 1U rackmount bracket for 1 unit of NETIO PowerPDU 4C.
NETIO RM2 2X4C	A 19" 1U rackmount bracket for 2 units of NETIO PowerPDU 4C. 2 pieces of PowerPDU 4C required.
NETIO RM3 4C VERTICAL	Mounting kit for 1 unit of NETIO PowerPDU 4C. Can be used inside 19" rack on the sides (vertical) or inside the rack.
NETIO RM4 4C UNIVERSAL	Universal mounting kit for 1 unit of NETIO PowerPDU 4C. Can be used inside metal cabinets.