PowerPDU 4C

PowerPDU 4C controls and measures four IEC-320 C13 power outlets. Communication takes place over 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.

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

- M2M API (13 protocols, open API)
- Scripting language (Lua)
- Serial port (RS-232)

- IP Watchdog (PING-based restart)
- Scheduler function (timer / calendar)
- **ZCS** (Zero Current Switching)

Each power output can be controlled from the device´s Web interface, Mobile app, button or using various open M2M APIs (protocols : REST XML/JSON, Modbus/TCP, MQTT, SNMP v3, Telnet and more).
Each C13 power output can be automatically switched on/off according to a time schedule, or by the IP WatchDog function that detects a PING response.
As a unique feature, the device is user-programmable in the Lua language. The Lua script runs in PowerPDU 4C and reacts to time or other LAN devices (Lua Active Client).

Usage example: The custom Lua script can read data from the RS-232 serial port and switch additional AC unit based on the value from a connected temperature sensor.

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

Controlled powering up of IT infrastructure

Autonomous restart of disconnected microwave links

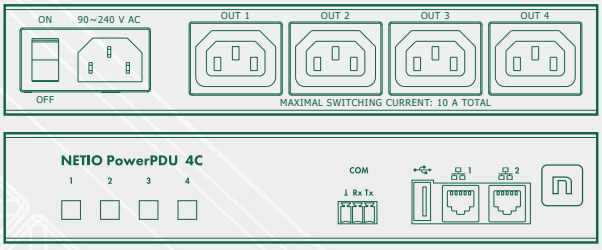
Industry – integration with 3rd-party systems

Energy savings

Multimedia installations

FEATURES

- 4x power output: IEC-320 C13
- **Socket control options:**
  - Buttons
  - WEB browser
  - Mobile App
  - M2M API (13 protocols)
  - Lua script
- Built-in LAN switch (2x RJ-45)
- **ZCS** (Zero Current Switching) - recommended for electric appliances with high Inrush Current
- **IOC** (Independent Output Control) – output state is not affected during FW upgrade.
- Scheduler function - a smart calendar
- IP Watchdog function - autonomous ping restarter
- **M2M API (protocols)**
  - Telnet (KSHELL)
  - SNMP v1 + v3
  - Modbus/TCP
  - MQTT generic / MS Azure
  - REST XML over HTTP(s)
  - REST JSON over HTTP(s)
  - REST URL API – HTTP(s) get
  - URL API over HTTP
  - SIP
- Supported protocols: HTTP, HTTPs, SMTP, DNS, NTP, uPNP, DHCP, SNMP, ICMP, Modbus/TCP
- RS-232 (3 pins) can be read and controlled in Lua scripts.



LUA – custom scripts

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

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

INTERFACES

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

ELECTRICAL MEASURMENTS

- 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)
- Europlug C13 power cabel

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 75 °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 for1unit of NETIO PowerPDU 4C. Can be mounted inside a 19" rack on the sides (vertical) or inside the rack.
NETIO RM4 4C UNIVERSAL	Universal mounting kit for 1unit of NETIO PowerPDU 4C. Can be used inside metal cabinets.