NETIO 8KS Smart Power Sockets Controlled Over LAN Owner's Manual

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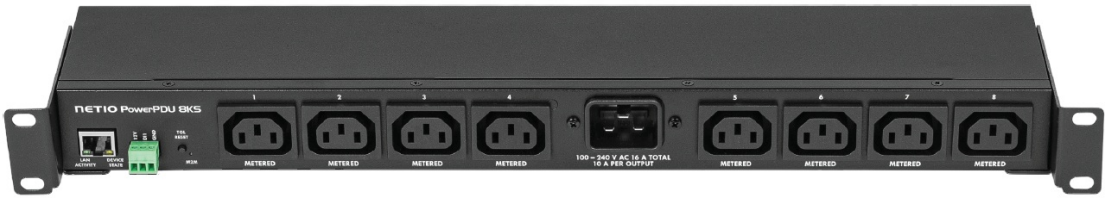

SPECIFICATIONS

- **Power input:** IEC-320 C20 (110/230V AC), max 16A
- **Power output:** 8x IEC-320 C13, max 10A each
- **Each output:** On/Off (relay SPST-NO)
- **ZCS (Zero Currents Switching):** Yes
- **Internal consumption:** 1-3 W

- **PowerUp State:** Default output state (On/Off/Last State)
- **PowerUp Delay:** Delay before switching output on
- **LAN (Ethernet) Input:** IEC-320 C20 110/230V (max 16A)
- **Output:** 8x IEC-320 C13 (max 10A / output)
- **Electrical metering:** 8 Channels

PRODUCT USAGE INSTRUCTION

Control Outputs Independently

- Each of the eight outputs can be controlled individually from the web interface. You can switch them on/off or power-cycle them.

Power-Up Delay Configuration

- You can configure a power-up delay interval for each output to switch them on in a sequence after a power-up or when power is restored.

Mobile App and NETIO Cloud

- The NETIO Mobile2 app allows you to control each output over LAN or through the NETIO Cloud service securely.

Open API Integration

- The device supports various protocols like HTTPs, XML/JSON over HTTP, SNMP, Modbus/TCP, MQTT-ex, and Telnet, enabling integration with third-party systems for network-based output control.

Digital Input and AV System Integration

- The DI feature reads external button states, and AV drivers facilitate integration with professional Audio/Video control systems like Neets, Crestron, Control4, etc.

Energy Management and Remote Control

- The device is suitable for IT infrastructure power management, remote device control via mobile app (LAN/Cloud), remote switching on/off or power cycling of electrical outputs, and energy-saving applications.

Centralized Control and Scheduled Switching

- NETIO Cloud provides a central web interface for controlling multiple devices. The Scheduler function allows time-based switching of outputs.

FAQ

- **Q: Can I control all eight outputs simultaneously?**
  - **A:** Yes, each output can be controlled independently, but there are options to control them collectively or in sequences based on your configuration.
- **Q: How secure is the NETIO Cloud service?**
  - **A:** NETIO Cloud is SSL-secured, ensuring a high level of security for controlling multiple devices from anywhere using the Web or Cloud API.
- **Q: What types of electrical measurements can be obtained from each output?**

- **A:** The electrical measurements include Current [A], Consumption [Wh], Frequency [Hz], Power [W], Voltage [V], True Power Factor (TPF), and Reverse Energy [Wh]. The accuracy of these measurements is high for monitoring purposes.

INTRODUCTION

- PowerPDU 8KS is a PDU (Power Distribution Unit) with eight power outputs (8x IEC-320 C13) controlled and metered over a LAN. It fits into a 19″ cabinet (1U).
- Each output can be switched on/off/toggle individually over the web interface, NETIO Cloud service, or the mobile app.
- Open API enables integration into a 3rd party systems. PowerPDU 8KS supports electrical metering on each output individually (8 Channels).
- DI (Digital Input) can control the outputs or count SO pulses and is available through API.
- Each of the eight outputs can be independently controlled from the web interface (switched on / off or power-cycled).
- To switch the outputs on in a sequence (after a power-up or when power is restored), a power-up delay interval can be configured for each output individually.
- NETIO PowerPDU 8KS fits into a 19″ cabinet (1U).
- A metal bracket is included.
- The NETIO Mobile2 app controls each output individually over LAN (local network) or NETIO Cloud.
- NETIO Cloud is an SSl-secured service for controlling multiple devices from anywhere (Web or Cloud API).
- Open API (such as HTTPs, XML/JSON over HTTP, SNMP, Modbus/TCP, MQTT-flex, Telnet, and others…) enables integration with third-party systems (controlling the outputs over the network).
- DI (Digital Input) is reading the state of an external button (dry contact). Pushing the button can initiate actions like power countdown, toggle output, etc. Also, pulse counter and CR (Condition & Rules) features are available.
- AV drivers make it easy to connect NETIO sockets to professional Audio/Video control systems such as Neets, Crestron, Control4, RTI, Savan,t and more.
- Electrical values on each one from 8 outputs (A, W, kWh, PowerFactor, …)

PRODUCT INFORMATION

- **LAN** (Ethernet)
- **Input:** IEC-320 C20 110/230V (max 16A)
- **Output:** 8x IEC-320 C13 (max 10A / output)
- **Electrical metering:** 8 Channels
- **HTTPs** supported, Open API (10 protocols, M2M API)
- **Mobile app:** NETIO Mobile2
- **Service:** NETIO Cloud

FEATURES

-  IT infrastructure power management (servers, KVM, routers)
-  Remote control of a device with a mobile app (LAN/Cloud)
-  Remote switching on/off or power-cycling of the electrical outputs
-  Central web interface (NETIO Cloud) for controlling multiple devices
-  Controlled power-up: Outputs are switched on in a defined order with a delay
-  Drivers for AV systems and installations (Crestron, Control4, RTI, ELAN, SKAARHOJ…)
-  Energy savings – SOHO applications
- 8x IEC-320 C13 power output
- Each output can be switched on/off individually
- **Methods for controlling each output:**
  - WEB browser
  - Open API (10 protocols)
- **NETIO Mobile 2:** Mobile app
- **NETIO Cloud:** Service for controlling multiple devices ZCS (Zero Current Switching): The relay is switched when the current crosses zero.
- It reduces relay wear and allows switching devices with a high Inrush Current.
- **Temperature sensor:** External temperature Sensor T1 on a 3m cable can be connected to DI.
- **FW upgrade** over the Web interface
- **The Scheduler function:** Time-based switching
- **Open API (protocols)**
  - JSON over HTTP(s)
  - Modbus/TCP
  - MQTT-flex
  - Telnet
  - SNMP (SNMP v1/v3)
  - XML over HTTP(s)
  - HTTP(s) push (JSON / XML)
  - URL API – HTTP get
- **Supported protocols:** HTTP(s), DNS, NTP, uPNP, DHCP, ICMP, TCP/IP
- **SUPPORT FOR USERS AND DEVELOPERS**
  - **NETIO Wiki** – library for developers
  - **ANxx (Application** Notes) with examples
  - **NETIO Drivers** – for AV control systems

- **NETIO PowerPDU 8KS** LAN PDU with 8 outputs IEC-320 C13. A metal bracket for mounting in a 19″ cabinet (1U) is included. The power cord in not included.
- **NETIO PowerPDU 8KS EU** LAN PDU with 8 outputs IEC-320 C13. A metal bracket for mounting in a 19″ cabinet (1U) and an EU (Europlug) power cord are both included.

SPECIFICATIONS

POWER

- **Power input:** IEC-320 C20 (110/230V AC), max 16A
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INTERFACES

- **LAN 10/100** Mbps (RJ-45)
- **1x DI (Digital** Input) with 12V DC (max 50mA)
- **LED indicators** in the RJ45 jack & M2M LED

ELECTRICAL MEASUREMENTS (8 individual outputs)

- **Current** [A]
- **Consumption** [Wh]
- **Power** [W]
- **TPF** (True Power Factor)
- **Accuracy:** <1%
- **Phase** [°]
- **Frequency** [Hz]
- **Voltage** [V]
- **Reverse** Energy [Wh]

PACKAGE CONTENTS

- **NETIO PowerPDU** 8KS
- **QIG (printed** Quick Installation Guide)
- **Metal brackets** to 19″ cabinet (1U) + screw set
- **Power cord according** to the order code

DIMENSIONS / WEIGHT

- **PowerPDU 8KS:** 439 x 41 x 90 mm / 1.3 kg
- **Package:** 514 x 73 x 204 mm / 1.6 – 1.9 kg

OPERATING CONDITIONS

- **Temperature** -20 °C to 65 °C /5A (-20 to 50 °C /16A)
- **For indoor use** only (IP30)
- **NORMS:** EN 62368, EN 60950, EN61000, EN50581 UL 62368-1, CAN/CSA C22.2 No. 62368-1
- **Networked power sockets** www.netio-products.com

Documents / Resources

	NETIO 8KS Smart Power Sockets Controlled Over LAN [pdf] Owner's Manual 8KS Smart Power Sockets Controlled Over LAN, 8KS, Smart Power Sockets Controlled Over LAN, Power Sockets Controlled Over LAN, Sockets Controlled Over LAN, Controlled Over LAN, Over LAN

References

- NETIO products a.s. | Professional smart power sockets, strips and PDUs
- User Manual