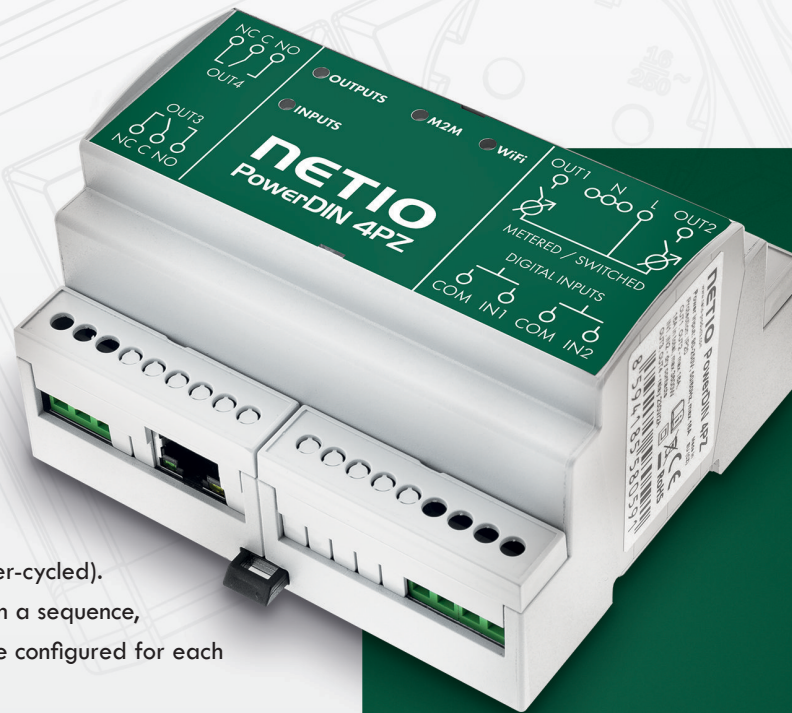


# NETIO PowerDIN 4PZ

**PowerDIN 4PZ is a dual 230V/16A electricity meter with LAN/WiFi and I/O. Both measured outputs can be switched off (relay). Both DI (Digital Inputs) can be used to count S0 pulses.**

**Device can be controlled via web interface, Open API, NETIO Cloud service or mobile app.**

- LAN (Ethernet) or WiFi
- I/O: 2x digital inputs (S0 counters) + 2x DO (relay)
- 2x metered outputs 230V/16A + ZCS relays
- Open API (8 protocols, M2M API)
- Supports NETIO Cloud
- Can be controlled with a mobile app



Each of the four outputs can be independently controlled from the product web interface (switched off/on or power-cycled). To switch the outputs on in a sequence, a power-up delay can be configured for each output.

**NETIO PowerDIN 4PZ fits on a DIN rail.**

The **NETIO Mobile2** app controls each output individually over LAN (local network).

**NETIO Cloud** is SSL-secured service for controlling the outputs from anywhere (Web or Open API).

**Open API** allows controlling the outputs over the network using various protocols (http XML/JSON, Modbus/TCP, MQTT, SNMP, Telnet and more...).

**The Scheduler** function switches outputs on and off at configured times. It works locally, even without an Internet connection.

**AV drivers** make it easy to connect NETIO sockets to professional Audio/Video systems such as Neets, Crestron, Control4 and more.

**CRESTRON**

Control4

**SAVANT**

**ELAN**

Neets



**Remote off/on switching or power cycling**



**Electricity consumption metering for charging electric cars**



**Remote control of a device with a mobile app (LAN / Cloud)**



**Electricity meter for IT applications**



**Load control tied to the power output of a photovoltaic plant**



**AV drivers: Crestron, ELAN, Neets, Control4, ...**

## FEATURES

- **2x Metered Outputs** (230V / max 16A) with relays (ZCS)
  - **2x Relay Outputs** – rated 230V/2A or 48VDC/2A
  - **2x Digital Inputs** (dry contacts) with S0 counters
  - Methods for controlling each output:
    - WEB browser
    - Mobile App (NETIO Mobile 2)
    - Open API (8 protocols)
    - NETIO Cloud (secured central service)
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- **NETIO Cloud:** Paid service
  - NETIO Mobile2: Mobile app
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- **ZCS** (Zero Current Switching) The relay is switched when the current crosses the zero level. This reduces relay wear and allows switching devices with a high inrush current.
  - **IOC** (Independent Output Control) – output state is unaffected by firmware update
  - Firmware update over the Web interface
  - **Scheduler function:** Each output can be switched according to its time schedule (calendar)
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- Open API (protocols)
    - JSON over HTTP
    - Modbus/TCP
    - MQTT-flex
    - Telnet
    - SNMP (SNMP v3 upon request)
    - XML over HTTP
    - URL API – HTTP get
    - HTTP(s) push (JSON/XML)
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- **AV Drivers:** Crestron, Neets, Control4, ELAN, RTI, SAVANT, ...
  - Supported protocols: HTTP, DNS, NTP, uPNP, DHCP, SNMP, MQTT, ICMP, Modbus/TCP
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## SUPPORT FOR USERS AND DEVELOPERS

- NETIO Wiki – library for developers
  - ANxx (Application Notes) with examples
  - NETIO Drivers - for AV systems
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## SPECIFICATIONS

### POWER

- Power input: 100-240VAC – Max 16A
  - **Outputs 1, 2:** metering + On/Off (SPST-NO relay)
  - **Outputs 3, 4:** NO/NC (SPST-NO relay)
  - Internal consumption: 1-2 W
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- **PowerUp State:** Default output state (On / Off / Last state)
  - **PowerUp Delay:** Delay before switching the output on
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### INTERFACES

- **LAN** 10/100 Mbps (RJ-45)
  - **WiFi** 2,4 GHz (internal antenna)
  - **NFC** for quick device configuration
  - LED indicators in the RJ45 jack + LED (I/O states)
  - Load Defaults button (under the panel)
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### ELECTRICAL MEASUREMENTS

- Electrical measurements: Yes (2 channels)
  - 2x current [A], consumption [kWh], load [W]
  - 2x TPF (True Power Factor)
  - 1x frequency [Hz], voltage [V]
  - Accuracy: <1%
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### PACKAGE CONTENTS

- NETIO PowerDIN 4PZ
  - QIG (printed Quick Installation Guide)
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### DIMENSIONS/WEIGHT

- PowerDIN 4PZ: 106 x 91 x 62 mm - 6M (SU) DIN
  - Package: 145 x 117 x 68 mm / 0.3 kg
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### OPERATING CONDITIONS

- Temperature -20 °C to +55 °C
  - For indoor use only (IP30)
  - Designed and produced in the Czech Republic
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**NORMS:** EN 62368, EN 61000, EN 50581

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**NETIO PowerDIN 4PZ**

Dual electricity meter with LAN/WiFi + I/O for IT or AV applications and small AC chargers (max 16A).