NETIO PowerDIN 4PZ

PowerDIN 4PZ is a dual 110/230V max16A 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 wia 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 ouputs 110-230V/16A + ZCS relays

- Open API (10 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

(¹) **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** (110/230V max 16A) with relays (ZCS)
- **2x Relay Outputs** – rated 110-230V/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 (10 protocols)
  - NETIO Cloud (secured central service)

- **NETIO Cloud:** Paid service
- **NETIO Mobile2:** Mobile app

- **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)

- Open API (protocols)
  - JSON over HTTP
  - Modbus/TCP
  - MQTT-flex
  - Telnet
  - SNMP (SNMP v1/v3)
  - XML over HTTP
  - URL API – HTTP get
  - HTTP(s) push (JSON/XML)

- **AV Drivers:** Crestron, Neets, Contol4, ELAN, RTI, SAVANT, ...
- Supported protocols: HTTP, 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 systems

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

- **PowerUp State:** Default output state (On / Off / Last state)
- **PowerUp Delay:** Delay before switching the output on

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)

ELECTRICAL MEASUREMENTS

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

PACKAGE CONTENTS

- NETIO PowerDIN 4PZ
- QIG (printed Quick Installation Guide)

DIMENSIONS/WEIGHT

- PowerDIN 4PZ: 106 x 91 x 62 mm - 6M (SU) DIN
- Package: 125 x 73 x 204 mm / 0.3 kg

OPERATING CONDITIONS

- Temperature -20 °C to +55 °C
- For indoor use only (IP30)
- Designed and produced in the Czech Republic

NORMS: EN 62368, EN 61000, EN 50581

NETIO PowerDIN 4PZ   Dual electricity meter with LAN/WiFi + I/O for IT or AV applications and small AC chargers (max 16A).