

# NETIO PowerDIN 4PZ

**PowerDIN 4PZ is a dual 230V/16A electricity meter with LAN/WiFi and I/O. Both measured outputs can be disconnected, and both 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 relay
- 2x metered outputs 230V/16A + ZCS relays
- Open API (7 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 NO/NC relay outputs – rated 230V/16A or 48VDC/2A
- 2x digital inputs (contacts) with S0 counters
- Methods for controlling each output:
  - WEB browser
  - Mobile App (NETIO Mobile 2)
  - Open API (7 protocols)
  - NETIO Cloud

- **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 v3 upon request)
  - 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, SNMP, MQTT, ICMP, Modbus/TCP

## 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, IOC)
- **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 [kWh], load [W]
- 2x TPF (True Power Factor)
- 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: 145 x 117 x 68 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).