



NEO 300 SERIES POWER CONTROLLER

NEO

NEO gives you full control and visibility over the energy usage and operational health of your setup. Instead of relying on "typical power usage" specifications, you can measure the actual power consumption of each device under real conditions, including variations caused by settings such as display brightness or content type. Intelligent start-up and shut-down control ensures your equipment powers up in the right order—for example, switching on the player before the display—while system health monitoring lets you check remotely whether devices are functioning as expected. With remote power cycling, unnecessary field visits can be reduced significantly.



On top of this, smart scheduling and routine management make it easy to cut energy costs, whether by setting up daily on/off cycles for stand-alone installations or activating displays only when a person is present.

NEO 300 series

The NEO 300 series offers power measurement data over all individual power outputs via its USB connection.

Features

- Power measurement on each individual output
- X-talk interface for easy sensor connection
- Monitoring of critical values

Power measurement

Gather highly accurate data on power parameters for each individual output.

- Voltage, Current, Power and Usage
- Auto-send data at interval or data-on-request

X-talk interface

Connect a wide range of Nexmosphere sensors such as Presence sensors, RFID, Ambient Light, Temperature, Touch buttons or Lidar, to create interactive applications or smart power routines

Monitoring

Actively monitor your installation via numerous diagnostic features such as auto-counters and threshold warnings.

- Settable min -and max power warnings per output
- Diagnostic logs such as hrs of operation

USB interface

The NEO controller manifests itself as a USB-to-Serial converter and is compatible with all mainstream operating systems and Digital Signage players. Effortlessly integrate NEO controllers with your digital signage player via Nexmosphere's easy-to-implement serial API.

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Thermal specifications

Operating temperature: +10°C...+40°C/ +50°F ... +104°F
 Storage temperature: -20°C...+50°C/ -4°F ... +122°F
 Cooling: Passive cooling (no moving parts)

Electrical specifications

Operating voltage: 100 -240 VAC 50/60Hz
 Power input current: 10A max
 Power outputs current: 10A max

Serial communication specifications (USB)

Baudrate: 115200
 Data bits: 8
 Parity: None
 Stop bits: 1
 Flow control: None
 Protocol: ASCII
 EOL: CR+LF

Standards and Certifications



RoHS
compliant

UL listing
pending

Miscellaneous

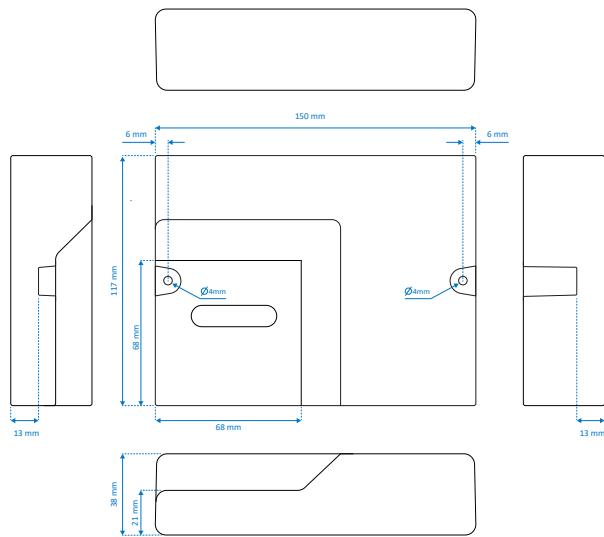
- Both horizontal and vertical mounting allowed
- Diagnostic LEDs indicating potential issues
- Status LED indicating power & input/output operations
- Onboard push buttons for manual control
- Numerous power cables available as accessory
- 2-year warranty (optional 3-year extended warranty)

Packaging

Netto weight: NEO340 - 250g
 NEO320 - 220g
 Items per carton 1 or 10 pcs

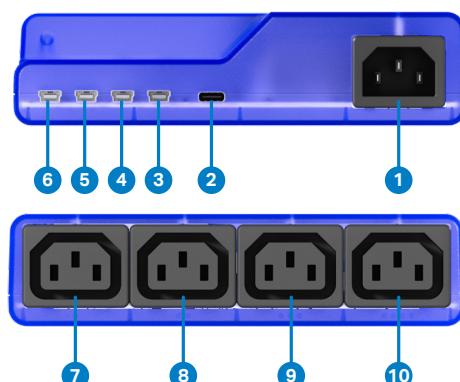
Mechanical dimensions

LxWxH: 150 x 117 x 38 mm
 Screw fixation: 4mm holes, 138 mm spacing



Hardware interfaces

1. Power input, C14
2. API interface, USB-C
3. X-talk interface, address 001
4. X-talk interface, address 002
5. X-talk interface, address 003
6. X-talk interface, address 004
7. Power output 1, C13
8. Power output 2, C13
9. Power output 3, C13 - NEO340 model only
10. Power output 4, C13 - NEO340 model only



Ordering information

Product ID Description

NEO320 2x 110-230V output (measure), USB
 NEO340 4x 110-230V output (measure), USB

Quantity

1 pc

1 pc