



NEO 600 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 600 series

The NEO 600 series offer both power measurement and control over all individual power outputs. Next to the USB connection for API communication, the NEO 600 series models also offer network connectivity with complimentary online dashboards as well as the option for server-to-server communication.

Features

- Power measurement on each individual output
- Power control of each individual output
- X-talk interface for easy sensor connection
- Scheduling of power on/off times
- 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

Power control

Control all 4 power outputs individually and create start-up and shut-down sequences.

- On, Off, Toggle, Cycle-on, Cycle-off
- Start-up, shut-down and power-on sequences
- Zero-voltage switching

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

Scheduling

Create and store up to 16 schedules for stand-alone power control applications.

Monitoring

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

- Settable min -and max power warnings per output
- Adjustable soft-fuse
- Individual watchdog timer per output
- Diagnostic logs such as hrs of operation and switch cycles

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.

Network connectivity

The NEO 600 series models also connect to your network via an RJ-45 network connector. Pre-built online dashboards from Sensmi provide power usage information and remote controls. Server-to-server APIs are available to transfer the data into your own application.

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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

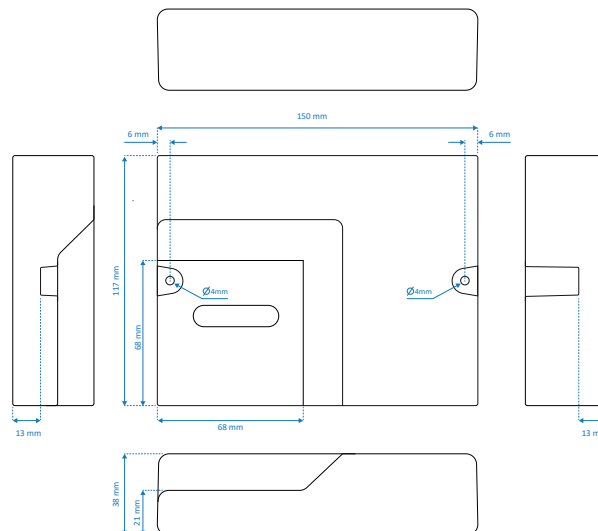
- Both horizontal and vertical mounting allowed
- Diagnostic LEDs indicating potential issues
- Status LED indicating power & input/output operations
- Onboard push buttons for manual control
- Numerous power cables available as accessory
- 2-year warranty (optional 3-year extended warranty)

Packaging

Netto weight: 320g
 Items per carton 1 or 10 pcs

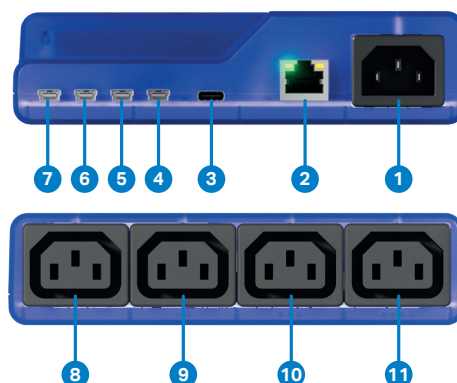
Mechanical dimensions

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



Hardware interfaces

1. Power input, C14
2. Network connector, RJ-45
3. API interface, USB-C
4. X-talk interface, address 001
5. X-talk interface, address 002
6. X-talk interface, address 003
7. X-talk interface, address 004
8. Power output 1, C13
9. Power output 2, C13
10. Power output 3, C13 - NEO640 model only
11. Power output 4, C13 - NEO640 model only



Ordering information

Product ID	Description	Quantity
NEO620	2x 110-230V output (switch & measure), USB/UTP	1 pc
NEO640	4x 110-230V output (switch & measure), USB/UTP	1 pc