



## 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** UL listing  
 compliant pending

## Miscellaneous

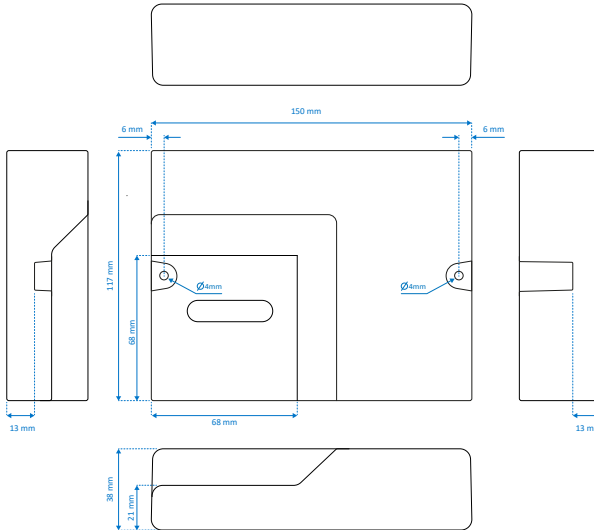
- Both horizontal and vertical mounting allowed
- Diagnostic LEDs indicating potential issues
- Status LED indicating power & input/output operations
- Onboard push buttons for manual control
- Numerous power cables available as accessory
- 2-year warranty (optional 3-year extended warranty)

## Packaging

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

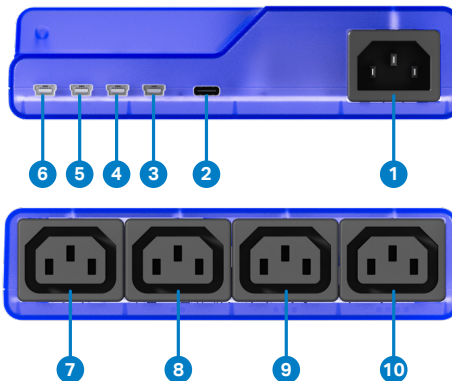
## Mechanical dimensions

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	Quantity
NEO320	2x 110-230V output (measure), USB	1 pc
NEO340	4x 110-230V output (measure), USB	1 pc