NEO 500 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 500 series

The NEO 500 series offers both power measurement and control over all individual power outputs via its USB connection.

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.

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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

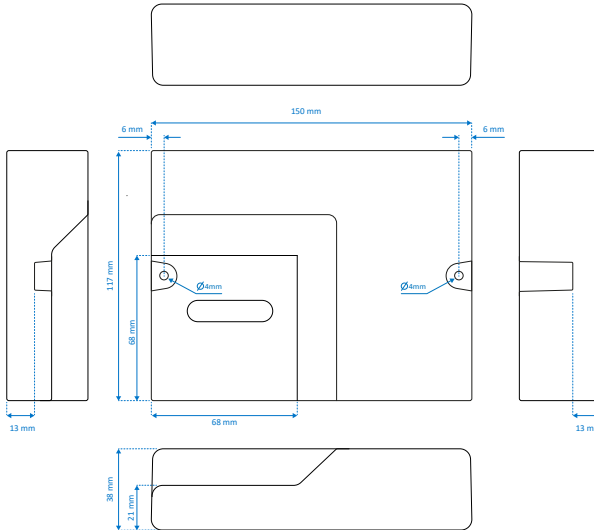CE   RoHS compliant   UL listing pending

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

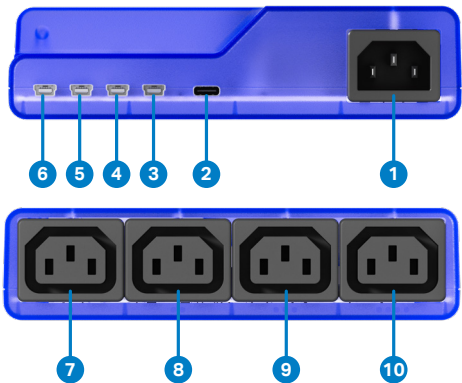|	
Netto weight:	NEO540 - 300g
	NEO520 - 270g
Items per carton	1 or 10 pcs

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 - *NEO540 model only*
10. Power output 4, C13 - *NEO540 model only*

Ordering information

Product ID	Description	Quantity
NEO520	2x 110-230V output (switch & measure), USB	1 pc
NEO540	4x 110-230V output (switch & measure), USB	1 pc