



NPB-20 (A20) (A30) Remote Power Reboot Management system

- 20 AC Outlets
- AC Current Draw Monitor
- Access IP Filtering
- Telnet
- Web Browsing
- Emailing
- SNMP/Trap
- Auto Ping & Reboot
- Modem Interface
- Network Security
- Local control Port
- Standalone Timer
- Local Data Logging

Note – there are 16 Switched outlets and 4 Always On outlets.



NPB-20 provides secured remote power source management operation and AC current monitoring/alarming capabilities via TCP/IP networks or local direct connection. Accessing the system is password protected at Administration level or user privilege levels. Network security includes user name and password (64-bit encrypted) authentication for Web access, IP filtering and email forwarding, NPB-20 offers the most versatile access control methods in the industry for easy, quick and reliable operations.

Power Reboot - The 16 out of 20 power outlets are fully controlled via Telnet, Web access, SNMP, emailing, local serial port or external Modem. The AutoPing feature enables the system to constantly monitor an IP address for a remote system and executes power reboot whenever the system is down. Each outlet has its own thread of AutoPing operation. In addition, each power outlet can be programmed to turn on/off periodically or be scheduled per calendar and real-time clock.

AC Current Draw Monitoring the system constantly collects aggregated True RMS AC current data from all power outlets. The data is viewed from a web browser, Telnet terminals or SNMP object viewer. If temperature or current draw goes beyond the user defined threshold, the system will notify a user by setting off audio alarm, sending emails, sending TRAP messages and/or saving data to a local log file on the unit,

Security - Accessing the system is password protected at Administration level or user privilege levels. Network security includes user name and password authentication (64-bit encryption algorithm) for Web access or sending emails. ACL (Access Control List) controls IP addresses for accessing the system. Only a specific IP address or a subnet of addresses can view or control the system.

Features:

- 61" X 2.5' X 1.8" (1500mm X 60mm X 44mm)
- Handles large current draw up to 20A.
- 20 AC power outlets. 16 AC outlets are switchable. Each switchable AC outlet is user name and password protected.
- Aggregated AC current draw monitoring for all outlets. It includes settings for user defined alarm threshold, alarm methods (Audio buzzer, Emails, TRAP or data log) and alarm message sending intervals.
- Audio Alarm Stop button.
- One RS232 Master Service port and one 10 base-T RJ-45 Ethernet port.
- Autoping and power reboot for each power outlet.
- Event timers for each power outlet so that an outlet can execute power recycling per calendar date, real-time clock, and period or duty cycle.
- Access IP filtering and blocking. Only specific or a group of IP addresses are allowed.
- Telnet accessibility. Menu driven or command-in-line configuration setup.
- Embedded Web server enables user to easily change settings, view or alter system status.
- Integrated SNMP agent and Trap notification capability.
- POP3/SMTP for sending and receiving emails. Via Emails, users are able to send commands, such as power reboot.
- Dial-up modem connection via local serial port.
- Administration and User level name and password protection, including user name and password authentication for Web access or email sending.

HTTP Web Page Snap-Shot.

System Operation Status					
Power Outlets					
Port #	On/Off	Reboot	Status	Port Name	Reservation
1				Server5	Open
2				Undefined	Open
3				Undefined	Open
4				Switcher10	Open
5				Undefined	Open
6				Engr3	Open
7				Undefined	Open
8				Engr12	Open



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System Specifications

Item	NPB-20	NPB-20 (A20)	NPB-20 (A30)
Power Input	NEMA 5-15P, 15 Amps 	NEMA L5-20P, 20 Amps 	NEMA L5-30P, 20 Amps 
Voltage	100 – 230 VAC		
Connector	1 Power Cord	1 Power Cord	1 Power Cord
AC Output Outlet	For NPB-20: 16 Switched and 4 Always On Outlets		
AC Current Draw Monitoring	Measurement of True RMS from all circuits.		
Outlet Type	NEMA 5-15		
Total Load (Combine all AC outlets)	15 Amps Max @ 120VAC 10 Amps Max @220 VAC	20 Amps Max @ 120VAC 15 Amps Max @220 VAC	20 Amps Max @ 120VAC 15 Amps Max @220 VAC
Physical Dimensions	61" X 2.5' X 1.8" (1500mm X 60mm X 44mm)		
Console Interface – Local Master Port	1 RS232 Port. RJ-45 Connector type. Data: 7 or 8 bits. Stop Bits: 1 or 2. Parity: None, Odd or Even. Flow Control: None or RTS/CTS. Baud Rate: 2400 to 115200.		
Audio Buzzer	85 Decibel		
Network Interface	10 Base T. RJ45.		
Network Protocols	ICMP, IP, TCP, DHCP, Telnet, DNS, POP3/SMTP, SNMP, HTTP, and BootP.		
Weight	12 lbs. Shipping Weight.		
Operational Temperature Environment	32F° – 122F° (0C° – 50C°)		
Storage Temperature	-20F° – 140F° (-29C° – 60C°)		
Safety and EMI Compliance	UL-60950 and FCC Class A. File No. 0749447.01		