iP 1520-RX
Web Based Power Controller

General Description

The iP 1520-RX combines microcontroller based power management with the proven performance of Juice Goose RX Series surge protection and filtration. This unit can be accessed via Internet or intranet communications using HTML, TCP/IP, UDP or RS232 so that individual AC receptacles can be turned on and off and monitored for electrical current flow.

Features

This product features high quality design and construction as well as the most important functions needed for web based remote control. iP1520-RX can be used to sequence audio equipment on and off, reduce energy consumption by scheduling equipment to be on only when needed, or remote reboot DSPs or other processor based electronics. The Power Cycle (TM) feature can be used to automatically reboot a network data router if network communication is lost. Each duplex can be individually controlled to turn on and off. And each is individually metered to report current flow. The front of the chassis includes status LEDs and override switches that allow local monitoring and control.

Proven Power Protection

Published test results prove the effectiveness of the power protection circuitry contained in the iP 1520-RX and other RX Series based products. Visit our web site or contact Juice Goose for test results.

This RX power protection technology is particularly valuable because it works against common mode as well as normal mode events. While it protects against dramatic surge events of up to 6,000 volts at 3,000 amps on hot and neutral (normal mode), it also limits ground line (common mode) surges to one-half (0.50) volt to prevent operating faults of digital processing equipment.

Power protection circuitry in the iP 1520-RX includes a differential transformer, lots of filtering capacitance and control circuitry providing protection from dangerous surges, high frequency interference, building wiring faults and over voltage. RX technology is proven to deliver protection comparable to an isolation transformer.

Communications and Control

All the functions of the iP 1520-RX can be accessed through Ethernet or RS232 ports on the back of the chassis. An on-board web server gives the product immediate Internet functionality through a graphic interface that can be accessed via a web browser. Or it can be controlled through text commands using a terminal program or a third party control system. A Crestron module is also available for this product.

SNMP Communications

Special iP15 Series products are available with an SNMP command platform. Those units do not feature current monitoring capability or communications via HTML, UDP or TCP. Contact Juice Goose for additional details.

iP 1520-RX Back

Monitoring

The iP 1520-RX allows local and remote monitoring of the operating status of the unit and of connected equipment. The front of the chassis features a white LED that indicates connection to a data network. This light stays on during active network connection and blinks in the event of Ethernet communications failure or RS232 connection. In addition, lighting each of three power POD LEDs on the front of the chassis indicates a corresponding duplex receptacle has been turned on.

This unit can also be remote monitored via the same communications connection used to control it. Current metering on each of the Power Pods reports amperage levels from 0.20 to 20.0 amps and can be accessed through the on-board web server or via raw TCP, UDP or RS232 protocol.

Detail Specifications

Chassis……..16 gauge steel with 11 gauge rack mount brackets
Dimensions……..1.75”H x19”W x 7”D
Weight……..10 lbs

Circuit Breaker…..20A thermal on back of the chassis
Technical Current Rating.....16A
Number of Addressable Power Pods…….....Three

AC Power Filtration @ 30 MHz……..…….80dB common mode, 60dB normal mode
Transient Energy Absorption……..……...1,020 Joules
Max AC Surge Let Through……10 volts normal mode, 1/2 volt common mode (ground)

Power Input……..……Seven foot power cord with NEMA 5/20P (Requires 5/20R receptacle)
Power Output…….....Six switched plus one unswitched NEMA 5/20R
Input Voltage……..……..……..120 VAC @ 60Hz

Signal Connections…..……..…….Ethernet (RJ-45) RS 232 (RJ-11)
Network Protocol.....HTML, TCP, UDP, RS232, SNMP (special model)
Monitor Features…….....Local and remote, network connection and current level
Current level monitoring is not available on SNMP models
Operating Temperature Range.....-10C to +40C

Contact

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See also: iP-1, iP 1515, iP 1520 and iP PD1-4