iP 15-RX Series
Web Based Power Controller

GENERAL DESCRIPTION

The Juice Goose iP1515-RX(TM) and IP 1520-RX(TM) are economical microcontroller based power distribution devices that can be accessed via Internet or intranet communications using HTML, TCP/IP or RS232 connection. With this remote access, individual AC receptacles can be turned on and off and monitored for electrical current flow. The iP1515 has a fifteen amp capacity. The iP1520 has a twenty amp capacity. Both provide AC line surge protection.

FEATURES

These products feature high quality design and construction as well as the most important functions needed for web based remote control. Each 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 automatic Power Cycle (TM) feature can be used to reboot a network data router or modem if network communication is lost. Each of three duplex receptacles 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.

COMMUNICATION AND CONTROL

All the functions of the iP 15 Series 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 the iP 15 can be controlled through RS232 commands using a terminal program or a third party control system. Drop in apps have been developed for Crestron, Extron Q-SYS, Symetrix and other similar AV control platforms.

iP 1515-RX Back

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RX SERIES POWER PROTECTION

Published test results prove the effectiveness of the power protection circuitry contained in the CQ Series-RX and other RX Series based products.

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 CQ Series-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.

LED FUNCTION AND MONITORING

The front of the chassis features a “NETWORK” LED that indicates data network and surge protection status. This light will show solid Blue/Red when both network connection and surge protection are active. Changes in this LED indicate loss of either network connection or surge protection. In addition, lighting each of three LEDs on the front of the chassis indicates a corresponding Power Pod receptacle has been turned on.

This unit can also be remote monitored via the same TCP/IP or RS232 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.

FAIL SAFE OVERRIDES

These products feature three levels of on and off control to provide fail safe operation in the event of system or unit malfunction. First, the iP 15 Series can be remote controlled via Ethernet or RS232 communication links. Second, in the event of network connection failure the switch on the front left of the chassis becomes operational and can be used to turn on the three switched Power Pods in a sequenced fashion. Lastly, in the event of a failure of the internal control circuitry the Manual Override switch of the front of the chassis will cause a hardwired turn on of all switched receptacles.

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….15A (iP 1515) or 20A (iP 1520) thermal on back of the chassis

Number of Addressable Power Pods……Three
Power Input……Seven foot power cord with NEMA 5/15P (iP1515) or NEMA 5/20P (iP1520) (NOTE: iP1520 requires a 5/20R receptacle)
Power Output…….....Six switched NEMA 5/15R (iP1515) or 5/20R (iP1520), plus one unswitched NEMA 5/15R (iP1515) or 5/20R (iP1520)
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
Network LED
Blue/Red Solid…….....Network Connection and Surge Protection OK
Blue/Red Blinking…….Network Connection Fault, Surge Protection OK
Red Solid…….Network Connection OK, Surge Protection Fault
Blue Solid…….Network Connection Fault, Surge Protection OK