iP 15 Series
Web Based Power Controller

GENERAL DESCRIPTION

The Juice Goose iP1515(TM) and 1520 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 conditioning and surge protection.

FEATURES

These products are economically priced relative to comparable Ethernet addressable power modules. Yet they feature high quality design and construction as well as the most important functions needed for web based remote control. Each has a 15 amp or 20 amp circuit breaker and power cord for an effective 12 amp or 16 amp current rating. They 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.

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 it can be controlled through RS232 commands using a terminal program or a third party control system.

SNMP COMMUNICATIONS

iP1515-SNMP and iP1520-SNMP are available with an SNMP command platform. Those units do not feature current monitoring capability or communications via HTML, UDP or TCP.

iP 1515 Back

MONITORING

The iP1515 and 1520 allow 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 green 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. Current monitoring

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.

POWER CONDITIONING

The iP1515 and 1520 provide AC line protection and filtration across hot, neutral and ground. In addition to guarding against dangerous voltage surges, these products use a multi step filter which includes a series component to reduce high frequency common and normal mode noise by up to 70 dB in a range up to 30 Mhz.

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
Technical Current Rating...12A (iP1515) or16A (iP1520)
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
        Current level monitoring is not available on SNMP models
Operating Temperature Range...-10C to +40C

CONTACT

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