



iP 1 "Piwi" Web Based Power Controller

General Description

The Juice Goose iP-1 (TM) is an economical, in wall microcontroller based power distribution device that can be accessed using Ethernet connection. With this remote communication the two AC power receptacles can be turned on and off and monitored for electrical current flow. The Piwi has a 15 amp capacity.



Features

The iP-1 fits in a 2+1 gang enclosure, where a two gang space is required for the duplex AC receptacle as well as a back box containing the control circuit, power supply and relay. A third space is needed to make AC power line connections. This unit is supplied with a three gang wall box for installation. However, most standard trade wall boxes as well as eight inch or deeper floor boxes are acceptable for housing the Piwi.

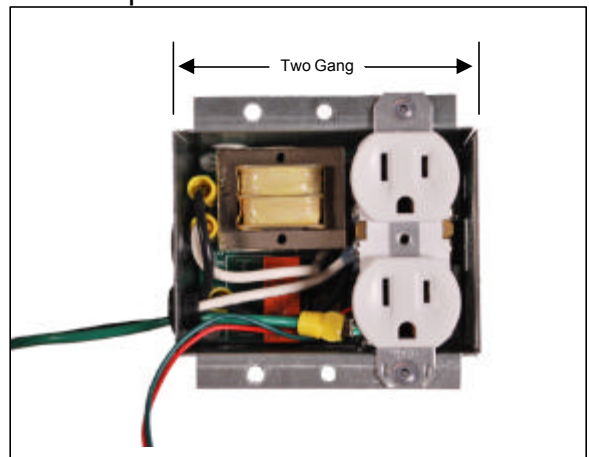
The iP-1 features high quality design and construction as well as the most important features needed for web based remote control. This device can be used to immediately turn electrical equipment on or off, reduce energy consumption by automating schedules when equipment is to be on, or automatically rebooting processor based electronics.

Each half of the duplex can be individually controlled to turn on and off. And each is individually metered to report current flow.

Communication and Control

All the functions of the iP-1 can be accessed through an Ethernet port on the back box. An on-board web server gives the Piwi immediate Internet or intranet functionality through a graphic interface that can be accessed via a web browser. Use of a simple text based command structure and standard TCP or UDP communications also allow the Piwi to be controlled by third party facilities or enterprise level systems.

Security features include a separate login process for Admin and User to distinguish between authorization levels for configuration and operation. SSL security is also available as a special option.



Monitoring

Piwi can be remote monitored via the same TCP/IP, UDP or raw TCP connection used to control it. Current metering on each half of the duplex reports RMS amperage levels from 0.20 to 20.0 amps.

Power Cycle

The Power Cycle provides an "auto reboot" function which is useful for restarting routers should a data network connectivity issue arise. When enabled, this feature will automatically turn one of the iP-1 outlets off and back on if a chosen domain can not be pinged within a specified period of time.

There are three user definable fields to the Power Cycle feature. The 'Ping Address' field is the Internet address that the unit will use to check network connectivity. That address can be selected during setup. The 'Ping Every' field is how often you want the Piwi to check for connectivity. The 'Power Cycle After' field is how many failed ping attempts may occur before rebooting.

Power Cycle is disabled in the factory setup and can be enabled using the configuration tools.

Detail Specifications

Chassis.....	Metal three gang front panel. Two gang back box. (Three gang wall box is also provided but may be substituted if desired.)
Dimensions.....	4.5"H x 6.5"W x 3.75"D
Weight.....	1lb
Available Front Plate and Duplex Colors.....	Black, Tan, White
Technical Current Rating.....	12A
Relay Current Rating.....	16A
Number of Addressable Power Pods.....	Two
Power Input.....	Hardwired
Power Output.....	Single NEMA 5/15R Duplex
Input Voltage.....	120 VAC @ 60Hz
Signal Connections.....	Ethernet (RJ-45)
Monitor Features.....	Local LED, Remote Graphic Interface (On/Off, Current)

Contact Juice Goose

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