

Watt-Hour Metering for each Branch Circuit of your PDU

Smart-PDU accurately meters power and energy usage on each individual branch circuit of your PDUs. Smart-PDU utilizes a patent pending modular design that distributes the common voltages from your PDU to a backplane for input to enclosed BladeMeter™ power meters. This voltage input along with current information provided by split-core current transformers installed on each circuit is continuously monitored by the BladeMeter™ to accurately determine the cumulative energy usage and power load for each circuit. This is critical information needed to better manage your power and cooling resources.

Smart-PDU's modular design greatly simplifies installation and deployment. Each BladeMeter™ can meter two branch circuits. The Smart-PDU cabinet supports up to 21 BladeMeters™ so you can configure Smart-PDU to meter between 2 and 42 branch circuits in two circuit increments. By utilizing split-core current transformers, installation can be accomplished in just a few minutes per circuit without any interruption of power.

Smart-PDU BladeMeters™ exceed ANSI Standards for watt-hour meter accuracy so you are assured of the same high accuracy standards public utilities require for their meters. This is an important consideration if you intend to bill your customers for their power usage.

Smart-PDU supports a wide range of network reading options. You can daisy-chain multiple Smart-PDU together and read them automatically from a host computer through a Serial Port Adapter or USB Port Adapter. With the addition of a Smart-Net Gateway you can remotely connect to a group of daisy-chained Smart-PDU across a TCP/IP network. The Smart-Net Gateway supports reading Smart-Watts via XML based Web Services or automatically logging the data to a remote FTP Server.



Smart-PDU Features

- High-Resolution Watt-Hour Meter: Accurately records the energy consumption of individual branch circuits in 1/10th watt-hour increments.
- Load Detection: Compute the circuit load over any reading period in watts.
- Meets ANSI C12.1 accuracy standards.
- Split-core current transformers allow installation without interruption of power
- Plug and Play: Host software can automatically discover and configure newly connected Smart-PDU's making deployment effortless.
- Parameters available for network reading: Unique Smart-Net ID, User Programmable ID, Model Number, Rated Amperage, Rated Voltage, Load in Watts, Usage in Watt-Hours
- Single Point Connectivity: You can read multiple daisy-chained Smart-PDU's through a single Serial Port, USB Port or IP Address.
- Read daisy-chained Smart-PDU's directly from a Smart-Net Serial Port Adapter, Smart-Net USB Port Adapter, or remotely across a TCP/IP network via a Smart-Net Gateway.
- Open Standards: Smart-Net Gateway supports reading multiple Smart-Watts through a single IP address using XML Web Services or automatic FTP logging.
- Case Construction: UL approved non-metallic enclosure
- Case Dimensions: 14.25" Width x 12.5" Height x 5.0" Depth
- Data Retention: All Smart-Watt Data retained by battery-backed RAM through power interruptions or disconnections.
- Meter up to 42 individual 120, 208 or 240 volt branch circuits on 120/240 volt or 208Y/120 volt 3Ø distribution system.

