

How do I add power monitoring to basic PDUs?

APPLICATION NOTE PRO2-006 | September 2017



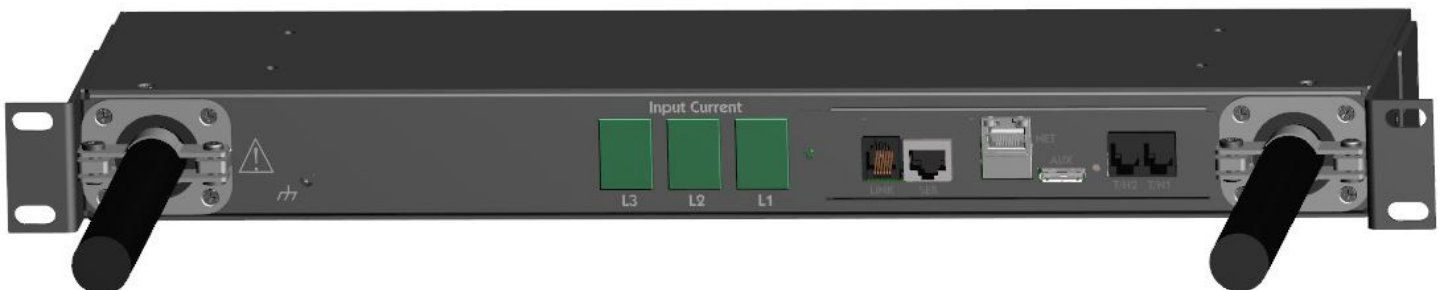
Learn how the PRO series Inline Meter rounds out your power monitoring infrastructure.

Typical Application

In order to fine-tune efficiency analysis in my data center, I have been utilizing Smart POPS rack PDUs in all my server racks to gain detailed knowledge of equipment power usage. In addition, I have some racks that come fully populated with network or storage equipment but only basic dumb power strips. How can I round-out the power monitoring to cover that equipment?

Our Solution

The Server Technology PRO series Inline Meter provides the same billing-grade $\pm 1\%$ energy measurement data via network connection and input line current measurement via easy-to-read LEDs as the PRO series rack PDU. With configurations available for all typical single- and three-phase power circuits, data center power monitoring can be made complete. For flexible install, the Inline Meter may be configured with end-mount or face-mount cords for 1RU horizontal mounting, button-bracket mounting, cabinet dead space mounting, or above rack mounting. Add an expansion unit and combination temperature / humidity probes to gain a complete understanding of the conditions in the rack - all on one IP address. Add Sentry Power Manager (SPM) to trend this data over the operational life of your racked equipment and provide live alerts against power and environmental thresholds.



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DESIGNED WITH HIGH-AVAILABILITY DATA ACCESS IN MIND.

The PRO2 series hot-swappable network card is designed to provide measurement and alert data from the "Master" PDU and up to (3) "Link" PDUs even if power to the master fails. Additionally, as seen in the image below, the link units are wired in a star formation so that failure of any link does not affect communication to the others.



KEY PRO2 BENEFITS:

- Hot-swappable, redundantly-powered network card (from link PDU)
- Star architecture multi-linking compared to competition's daisy chain design with single point of failure
- Branch current measurements and multi-level alerts
- Shallower enclosure compared to previous generation PDU
- More alarms and configuration options compared to previous generation PDU

KEY INLINE METER BENEFITS:

- Billing-grade +/- 1% accuracy
- Models available for all standard cords and more
- Operation to 60 C (140 F) ambient
- Horizontal and vertical mounting compatible

Interested in learning more about how Server Technology can help you manage and distribute power in your datacenter?
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