



A suite of Energy Monitoring Solutions that let you control, monitor, understand and reduce your industrial energy costs.

- **Power Meter**
- **Power Meter Plus**
- **Energy Plus**

Horner APG has developed cutting edge industrial control products for over 25 years. And for the last 10+ years, Horner has created specialty products used in power generation, monitoring and protection. These are used by generator manufacturers and electrical utilities all over the world. Now, Horner APG is introducing a suite of energy monitoring and management devices that enable small to medium sized facilities to experience energy monitoring and management that was once only available to larger operations or simply not economically feasible in the past.

The SmartMon Energy suite of products are an elegant combination of hardware and embedded software applications packaged in an easy to install solution. No programming is required. No networking is required. In fact, you can hook up a standalone SmartMon Energy product to a machine, circuit or building and instantly be monitoring your energy consumption. SmartMon products show you *exactly where* your costs are so you can proactively reduce your energy consumption costs. As your needs grow, SmartMon Energy products can grow with you and be easily expanded across your plant or facility.

Most SmartMon Energy products include onboard data-logging for capturing historical data. You are in complete control of selecting the precise measurement criteria you wish to log. SmartMon Energy will log your data for analysis and up-to-the-minute decision making. No PC is required, however you can easily import SmartMon's historical data from the MicroSD memory card for use in other software applications through its industry standard .CSV formatted files.

- How much energy does your building use?
- How much energy does your building use in off hours?
- How much energy does each department / section use?
- How much energy does each major piece of equipment use?
- How much does the energy cost to produce your products?
- How do you limit demand or on-peak charges?
- How do you turn off loads you are not using?



The graph below shows the monitoring of a commercial building over a 4 day period. Between the automated lighting system and making some procedural changes, the company saved over \$24,000 and 300,000 kWh of electricity over a year.*



SmartMon Energy Plus and SmartMon Energy Pro include a Web interface that will allow you to see your monitoring results from anywhere in the world, via a web browser or web-enabled cellular phone. Measure at your location...monitor from anywhere!

* Based on 2007 Average Retail Prices of Electricity, Energy Information Administration.

With Horner APG's SmartMon Energy Solutions.

How SmartMon Energy Saves You Money

- Knowing how much energy is used and *when* it was used can help you determine waste. For example, by using SmartMon you may find your machine costs you \$60 an hour in electricity, letting you adjust and optimize your runs with it.
- Knowing how much energy it costs to run your equipment can help you adjust product costs to match energy usage.
- Switching off non-critical loads can reduce peak demand and save you money on demand charges. Controlling a single water heater or HVAC unit could pay for the equipment with demand costs savings.
- Scheduling energy intensive equipment for runs during non-peak hours can significantly reduce your costs.
- Monitoring power quality or motor operation can prevent costly down time or expensive equipment repair.



Most SmartMon Energy Products include onboard storage of historical data via MicroSD memory.



SmartMon Power Meter Plus is designed for low cost, machine based monitoring. SmartMon Energy Plus can provide facility, department, or zone monitoring including voltage, sag/swell and power factor.

SmartMon Power Meter provides low cost power measurement with a graphical user interface as well as alarming capabilities with relay output. Power Meter can show graphical trends right on the meter.



SmartMon Motor is an existing Horner product that works with the Energy Monitoring / management family. SmartMon Motor monitors three phase motors for a number of current, temperature, estimated power and timing parameters. In addition, it provides real-time and historical data for a number of motor parameters displayed on a graphical user interface.

- Easy to use and install
- Powerful trending and data-logging
- Advanced connectivity
- Built-in graphical user interface
- Optional Remote Monitoring with Cscape™ EnvisionRV Software



SmartMon Energy Products have a modest footprint and offer superior, easy-to-use operator interfaces.



SmartMon Specifications



	Power Meter	Power Meter Plus	Energy Plus
Interface	128x64 Mono LCD	160x128 Mono LCD	QVGA 32K Color LCD
Current	3 CT	3 CT	3 CT
Voltage	3 PT	3 PT	3 PT
Relays	1	1 + 16 Optional	1 + 16 Optional
Inputs		16 Optional	16 Optional
Trend Display	Yes	Yes	Yes
Alarms	Yes	Yes	Yes
Data Log		Yes	Yes
Load Shed		Yes	Yes
Sag/Swell		Yes	Yes
Frequency	Yes	Yes	Yes
Modbus	Yes	Yes	Yes
Ethernet		Optional	Yes
Web View			Yes



59 S. State Avenue
 Indianapolis, IN 46201
 Horner APG
 USA 877-665-5666 or 317-916-4274
 Europe (+353) 21-4321266
www.hornerocs.com