

PC CONTROL/ANALYSIS PROGRAM (PSM)

Waveforms

- Voltage and Current
- Zoom and Pan
- Print or Save to File

Data Log

- Any Variable
- Any or All Phases
- Minimum, Maximum, and Average

Harmonics Graph

- Voltage and Current
- All Phases
- To the 50th Harmonic

Harmonics Data

- Magnitude of Each Harmonic
- THD & RMS Values
- K-Factor

Report Generator

- Summarize or Compare
- Same or Different Logs
- Clear, Concise, and Customizable Reports

APPLICATIONS

DIAGNOSE POWER RELATED EQUIPMENT PERFORMANCE PROBLEMS

ANALYZE HARMONIC LEVELS AND TRACK DOWN THEIR SOURCE

DIAGNOSE PROBLEMS CAUSED BY THE EFFECTS OF TRANSIENTS

VERIFY COST EFFECTIVENESS OF ENERGY SAVING PROGRAMS SUCH AS LIGHTING RETROFITS OR AUTOMATED CONTROLS

MEASURE POWER FACTOR

“Finally, a cost effective way to track down intermittent problems!”

Other Products

- ◆ **MCG AC Line, Data Line, PLC, and other Surge Protection Products** – Protect all your equipment for every application!
- ◆ **Tripp Lite Battery Backup Systems** – The reliability leader in UPS systems!
- ◆ **Veris Industries, Inc. Alta Labs™ Environmental Sensors and Hawkeye® Power Monitoring Sensors** – Innovative and quality energy monitoring solutions!

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Harmonics Analysis

Power Quality Analysis

Data Logging

Verify Wiring and Equipment Performance

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FEATURES

4 Voltage Inputs

- A, B, C, and Neutral for single phase and three phase circuits

100 Measurements Each Second

- Answers to all common questions about electric power: present values, summaries and estimates

Monitor Demand, Harmonics or Disturbances

- Summary data available on the display, data log may be uploaded to a computer for display and analysis

12 Voltage Measurements

- Maximum, minimum, average, and present value for each phase-to-phase, phase-to-neutral, and DC voltage

16 Current Measurements

- Maximum, minimum, average, and present value for A, B, C, and Neutral currents

True RMS, VA, and VAR Power

- Maximum, minimum, average, total, and present value

Fundamental Frequency

- Accurate from 45 – 66 Hz and 360 – 440 Hz

Duty Cycle

- Average “On” Time – Power Cycles – Estimated power cycles per hour, per day, per week
- Excellent diagnostic tool for thermostatically-controlled loads

True Power Factor and Displacement Power Factor

- Maximum, minimum, average, and present value of true power factor for A, B, C, and Total

User Control of Administrative Settings

- Change the time, date, greeting, etc.

Switch Between Families of Measurements

- Phase to phase, phase-to-neutral, DC, variable frequency, fixed frequency, positive power, regenerative power

Internal Battery to Bridge Power Failures

- Internal rechargeable battery pack can stand alone or trickle charge while operating
- LED indicates that battery is charging

4 Current Inputs

- A, B, C, and Neutral for single phase and three phase circuits

Transient/Swell/Sag Detection

- Magnitude, duration, risetime, and time/date of worst transient
- All swells and sags of at least 1 second in duration are recorded while monitoring consumption

Harmonic Analysis of Any Voltage or Current

- THD of any of the 3 voltages or 4 currents upon demand (through the 15th on meter and through the 50th with software)
- Magnitudes of individual harmonics (with Harmonic Analysis Option installed)

Elapsed KWH and True Cost

- Actual energy use and cost are updated each second

Estimated Energy and Cost Per Hour, Per Month, Per Year

- Estimates are updated each second

Peak Demand Period

- Finds period and magnitude of peak demand
- Length of demand period is under user control

Real-Time Clock/Calendar

- Present time and elapsed time of monitoring may be displayed at any time
- Monitoring may be started or stepped at pre-set times

Straightforward User Calibration

- Calibrate voltage, current, and frequency if desired
- Set input ratios for voltages and current for automatic compensation in all calculations

User Control of Measurement Settings

- Set logging interval from 1 second to 99 minutes
- Set utility rate from \$0.00001 to \$999,999 per KWH for U.S. and international currencies

Waveform Capture

- Stores 14 synchronized voltage and current waveforms for later viewing

A User Interface You Can Really Understand

- Intuitive breakthrough puts the power of this instrument in the palm of your hand

Serial Communications Port to Upload Waveforms, Data Log, and Remote Control

- With PC Control/Analysis Option, waveforms and data logs can be uploaded upon demand
- Multiple PowerSight units may be remotely controlled and interrogated from one computer

Specifications

Accuracy:	AC Voltage/Current/Frequency: ½ %, Power/Energy/Cost: 1%
Inputs:	0-600 Vrms 3 phase and DC 0.01 – 3000 Amps 3 phase (depending on probes used)
Harmonics:	Fundamental through 15 th (through 50 th with PC Control/Analysis Option)
Transients:	32 usec minimum, 2000 Vpk, 999 events
Logging:	10 days unattended at 15 min. intervals (adjustable to 2 months) Recording interval from 1 sec. to 99 min. (measurement rate is once per second)
Power:	AC adapter or internal rechargeable battery (10 hours)
Size/Weight: Operating	4 x 8 x 1.75 inches/Less than 2 pounds
Temperature:	0 – 50° C (32 – 122° F)