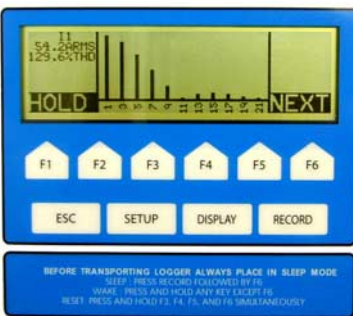


Power Pro

THD ♦ HARMONICS ♦ FLICKER ♦ SAGS ♦ SWELLS

Features

- Easy to use interface - setup and record data without even looking at the manual!
- Records voltage, current, power, THD, Waveform snapshots and Flicker (IEC 868, IEC 61000-4-15 PST and PLT) at the time as capturing transient occurrences.
- Large graphical display - displays waveforms and harmonic bar charts in real time.
- Up to 128 samples/cycle on every ½ cycle.
- Data storage on removable 32M memory cards.
- Real time clock accurate to ±1 minute per year.
- Built in support for 3 phase flexible CT.
- Designed to IEC 1010 specifications.
- All new Windows software.
 - Easy to use with powerful display options.
 - Flexible zoom feature.
 - Remote setup of logger.
 - Real time display of logger measurements.



| | Specifications | | Notes |
|-----------------------|----------------|---|--|
| Phase Voltages | V1, V2, V3 | 240V Range: 0-300VAC 600V Range: 0-700VAC | - Internal isolation PTs - External PT ratio user adjustable - Can be connected I-n or I-I |
| Neutral Voltage | VN | 80V Range: 0-100VAC | - Internal isolation PT |
| Phase Currents | CT1, CT2, CT3 | 1V Range: 0-1.25VAC | - Non isolated voltage input for use with isolating CTs with voltage output |
| | Flex CT | 2.5V Range: 0-3.12VAC | - Non isolated voltage input for use with 3 phase flexible CT (separate power supply not required) |
| Neutral Currents | CTN | 1V Range: 0-1.25VAC | - Non isolated voltage input for use with isolating CTs with voltage output |
| Frequency | V1 | >35V (240V Range) >90V (600V Range) | - Frequency range is 45 – 65 Hz for Power Flow firmware or 350 – 450 Hz for VIP400 firmware |
| Resolution | | 0.1V / 0.2V (240V/600V) 0.1A / 1A (<200A CT/ > 200A CT) | |
| Accuracy | | ±0.2% of Full Scale - Voltage ±0.2% of Full Scale - Current | Excluding clamp accuracy |
| Sampling | | 128 samples/cycle, all 8 channels, every ½ cycle | |
| Power Supply | | - Internal battery (5 hours run time) - External AC/DC adaptor - V1 input (15VA load) | Internal battery is charged from external AC/DC adaptor or from V1 input (min 70V on V1) |
| Memory | | 32M removable memory cards | |
| Operating Temperature | | -20 to 60°C | |

Specifications subject to change without notice

Power View

Data Analysis Software

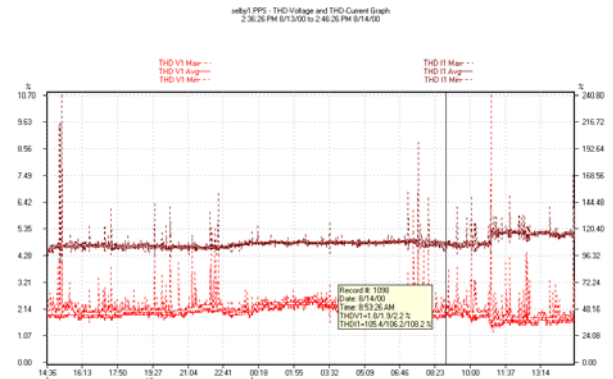
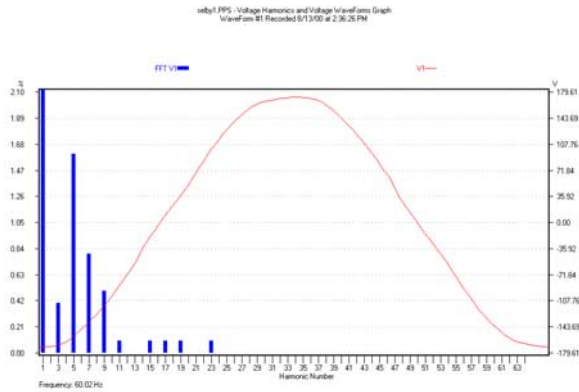
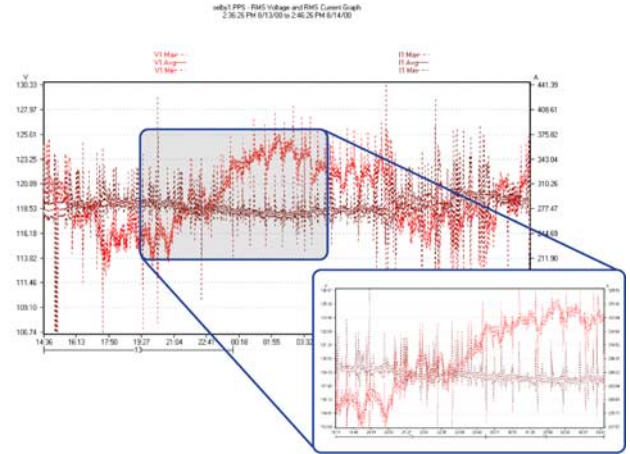
When this software is used in conjunction with Power Pro, it can collect raw data from the logger, and display in various forms of statistical graphs according to the user's needs, or export data for use by Excel.

Features

- Plot all statistical graphs supported by the **Power Pro**, including RMS, THD, Waveforms, Power, Flicker, and much more.
- 2 graphs can be overlapped for direct comparison.
- Built in 'Speed Button' for quick access to pre-defined graphs.
- Generate complete report of 'Event Capture' function from the **Power Pro**.
- 'Data Box' that can pinpoint an exact co-ordinate and display all the related information at that point.
- Export data for custom post processing.

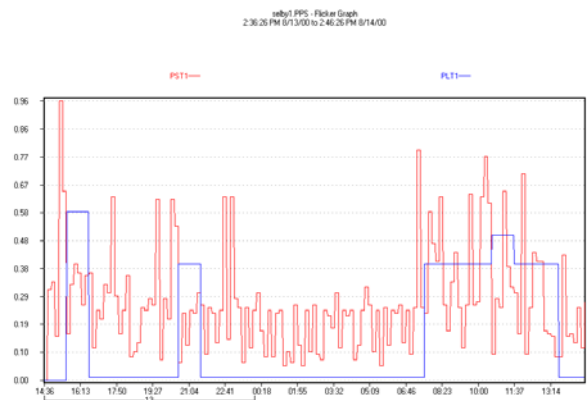
System Requirement:

- Pentium Processor, Windows 95/98
- 16MB RAM, 4MB Hard Disk space
- VGA Display, 16 bit High Color 800 x 600 pixels
- Mouse, Keyboard
- PCMCIA slot (*Optional*)



Event Records
183 Events captured from 8/13/00 3:10:17 PM to 8/14/00 2:46:21 PM

| Number | Start Time | Stop Time | Duration | Type | Magnitude | Limits |
|--------|--------------------|--------------------|-------------|-----------------|-----------|-----------------|
| 1 | 8/13/00 3:10:17 PM | 8/13/00 3:10:17 PM | 9.5 cycles | Voltage 1 sag | 108.9V | 114.0 / 126.0 V |
| 2 | 8/13/00 3:10:35 PM | 8/13/00 3:10:35 PM | 9 cycles | Voltage 1 sag | 108.6V | 114.0 / 126.0 V |
| 3 | 8/13/00 3:14:15 PM | 8/13/00 3:14:15 PM | 10 cycles | Voltage 1 sag | 108.3V | 114.0 / 126.0 V |
| 4 | 8/13/00 3:14:27 PM | 8/13/00 3:14:27 PM | 10.5 cycles | Voltage 1 sag | 108.0V | 114.0 / 126.0 V |
| 5 | 8/13/00 3:14:39 PM | 8/13/00 3:14:39 PM | 13 cycles | Voltage 1 sag | 107.6V | 114.0 / 126.0 V |
| 6 | 8/13/00 3:16:55 PM | 8/13/00 3:16:55 PM | 7.5 cycles | Voltage 1 sag | 109.2V | 114.0 / 126.0 V |
| 7 | 8/13/00 3:17:13 PM | 8/13/00 3:17:13 PM | 3.5 cycles | Voltage 1 sag | 108.3V | 114.0 / 126.0 V |
| 8 | 8/13/00 4:32:21 PM | 8/13/00 4:32:21 PM | 7 cycles | Voltage 1 sag | 111.5V | 114.0 / 126.0 V |
| 9 | 8/13/00 4:32:35 PM | 8/13/00 4:32:35 PM | 6.5 cycles | Voltage 1 sag | 111.5V | 114.0 / 126.0 V |
| 10 | 8/13/00 4:32:42 PM | 8/13/00 4:32:42 PM | 6.5 cycles | Voltage 1 sag | 111.5V | 114.0 / 126.0 V |
| 11 | 8/13/00 5:14:17 PM | 8/13/00 5:14:17 PM | 3.5 cycles | Voltage 1 sag | 113.3V | 114.0 / 126.0 V |
| 12 | 8/13/00 5:15:22 PM | 8/13/00 5:15:22 PM | 5.5 cycles | Voltage 1 sag | 112.7V | 114.0 / 126.0 V |
| 13 | 8/13/00 5:31:54 PM | 8/13/00 5:31:55 PM | 44.5 cycles | Voltage 1 sag | 106.7V | 114.0 / 126.0 V |
| 14 | 8/13/00 5:31:57 PM | 8/13/00 5:31:59 PM | 34.5 cycles | Voltage 1 under | 113.8V | 114.0 / 126.0 V |
| 15 | 8/13/00 5:32:02 PM | 8/13/00 5:32:06 PM | 239 cycles | Voltage 1 under | 108.8V | 114.0 / 126.0 V |



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 Unit 5 Southmill Trading Centre, Southmill Road,
 Bishop's Stortford, Herts. CM23 3DY ENGLAND
 T: 0044 1279 503173 F: 0044 1279 654441
 sales@elcomponent.co.uk www.elcomponent.co.uk