

# PowerWatch 120V

## Product Specifications

**Type:** Voltage Disturbance Recorder  
- North America

### GENERAL SPECIFICATIONS

|                               |   |
|-------------------------------|---|
| <b>Size:</b>                  | 85mm x 68mm x 35mm (3.35" x 2.65" x 1.35")  |
| <b>Weight:</b>                | 120 grams (4 ounces)  |
| <b>Case Material:</b>         | Noryl® Plastic  |
| <b>Battery:</b>               | 3.6 volt Lithium  |
| <b>Fuse:</b>                  | 1/16A fast-blow (Non-replaceable)   |
| <b>Clock Accuracy:</b>        | +/- 2 seconds per day   |
| <b>Memory Size:</b>           | 32KB (4,000 events)   |
| <b>Sampling Methods:</b>      | Continuous (First-in First-out), Stop When Full (Fill-then-stop)  |
| <b>Operating Limits:</b>      | -40 to 70°C (-40 to 158°F) and 0 to 95% RH (non-condensing)   |
| <b>Alarm Type:</b>            | Optical (flashing red LED)  |
| <b>Certifications:</b>        | CSA; NRTL/C; UL3111-1   |
| <b>Event Types Detected:</b>  | Surges, sags, impulses, dropouts, outages, and frequency variations   |
| <b>Measurement Locations:</b> | Hot to Neutral and Neutral to Ground  |
| <b>PC Requirements:</b>       | IBM PC or 100% compatible running Windows® 3.1, '95, '98, 2000, Me, NT or XP with at least 2 MB RAM, 2 MB of hard drive disk space and one free serial port |
| <b>Software Requirements:</b> | PowerWatch Software   |

### MEASUREMENT SPECIFICATIONS

|                                |  |                                  |                          |
|--------------------------------|--|----------------------------------|--------------------------|
| <b>Surge, Sag &amp; Outage</b> | <i>Hot to Neutral</i>                      | <i>Neutral to Ground</i>         |                          |
|                                | Range: 0 to 200 V rms                      | 3 to 200 V rms                   |                          |
|                                | Accuracy: +/- 1 Vrms + resolution          | +/- 1 V rms + resolution         |                          |
|                                | Resolution: 1 V rms                        | 1 V rms                          |                          |
| <b>Impulse</b>                 | <i>Hot to Neutral</i>                      | <i>Neutral to Ground</i>         |                          |
|                                | Range: 100 to 2500 V peak                  | 50 to 2500 V peak                |                          |
|                                | Accuracy: +/-10% of reading + res          | +/-10% of reading + res          |                          |
|                                | Resolution: 10 V                           | 10 V                             |                          |
|                                | Width Detection: 1 µsec minimum            | 1 µsec minimum                   |                          |
|                                | Phase Angle:                               |                                  |                          |
|                                | Accuracy: +/- 1° (20 to 180°, 200 to 360°) | +/- 1° (20 to 180°, 200 to 360°) |                          |
|                                | Resolution: 1°                             | 1°                               |                          |
| <b>Frequency</b>               | Range: 45 to 65 Hz                         |                                  |                          |
|                                | Accuracy: +/- 0.1 Hz (3 cycles minimum)    |                                  |                          |
|                                | Resolution: 0.1 Hz                         |                                  |                          |
| <b>Time</b>                    | Events (<1 second)                         | <i>Hot to Neutral</i>            | <i>Neutral to Ground</i> |
|                                | Accuracy: +/- 0.5 cycle                    | +/- 0.5 cycle                    | +/- 1 cycle              |
|                                | Resolution: 0.5 cycle                      | 0.5 cycle                        | 1 cycle                  |
|                                | Time Stamp (>1 second)                     |                                  |                          |
|                                | Accuracy: +/- 2 seconds/day + resolution   |                                  |                          |
|                                | Resolution: 8 seconds                      |                                  |                          |

PowerWatch 120V is the easiest way to monitor and record essential voltage disturbance information from any North American power receptacle. Just set up your pre-determined disturbance threshold values or use the industry standard default values and plug it in. No wiring or dangerous connections required.



### WARRANTY

|                   |          |
|-------------------|----------|
| Internal Battery: | 10 Years |
| Data Logger:      | 3 Years  |

### APPLICATIONS

Auditing medical instrumentation, point-of-sale terminals, computer servers, and other sensitive electronic equipment

|                |              |
|----------------|--------------|
| <b>Model#:</b> | <b>Cat#:</b> |
| PWV-001        | 01-0066      |