



PowerWatch 120V

Voltage Disturbance Recorder - North America

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.

APPLICATIONS

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

GENERAL SPECIFICATIONS

| | |
|------------------------|---|
| Size: | 85mm x 68mm x 35mm (3.35" x 2.65" x 1.35") |
| Weight: | 120 g (4.00 oz) |
| Case Material: | Noryl® Plastic |
| Battery: | 3.6 volt Lithium, 1 Amp-Hour |
| Fuse: | 1/16A fast-blow (Non-replaceable) |
| Clock Accuracy: | ± 2 seconds per day |
| Memory Size: | 32 KB (4,000 events) |
| Sampling Methods: | Continuous (First-in First-out), Stop When Full (Fill-then-stop) |
| Operating Limits: | -40°C to 70°C (-40°F to 158°F) and 0 to 95% RH (non-condensing) |
| Alarm Type: | Optical (flashing red LED) |
| Certifications: | CSA: NRTL/C; UL3111-1 |
| Event Types Detected: | Surges, sags, impulses, dropouts, outages, and frequency variations |
| Measurement Locations: | Hot to Neutral and Neutral to Ground |
| PC Requirements: | Windows PC with at least one free USB or serial port (depending on interface) |
| Software Requirements: | EventReader Software (Compatible with Windows XP, Vista, Windows 7 and Windows 8 [32 bit & 64 bit]) |



MEASUREMENT SPECIFICATIONS

Surge, Sag & Outage

| | |
|-------------|----------------------|
| Range: | 0 to 200V rms |
| Accuracy: | ±1V rms + resolution |
| Resolution: | 1V rms |

Impulse

| | |
|------------------|-------------------------------|
| Range: | 100 to 2500V peak |
| Accuracy: | ±10% of reading + resolution |
| Resolution: | 10V |
| Width Detection: | 1 µsec minimum |
| Phase Angle: | |
| Accuracy: | ±1° (20 to 180°, 200 to 360°) |
| Resolution: | 1° |

Frequency

| | |
|-------------|----------------------------|
| Range: | 45 to 65 Hz |
| Accuracy: | ±0.1 Hz (3 cycles minimum) |
| Resolution: | 0.1 Hz |

Time

| | |
|------------------------|-----------------------------|
| Events (<1 second) | |
| Accuracy: | ±0.5 cycle |
| Resolution: | 0.5 cycle |
| Time Stamp (>1 second) | |
| Accuracy: | ±2 seconds/day + resolution |
| Resolution: | 8 seconds |

Neutral to Ground

| | |
|-------------|----------------------|
| Range: | 3 to 200V rms |
| Accuracy: | ±1V rms + resolution |
| Resolution: | 1V rms |

Neutral to Ground

| | |
|------------------|-------------------------------|
| Range: | 50 to 2500V peak |
| Accuracy: | ±10% of reading + resolution |
| Resolution: | 10V |
| Width Detection: | 1 µsec minimum |
| Phase Angle: | |
| Accuracy: | ±1° (20 to 180°, 200 to 360°) |
| Resolution: | 1° |

Neutral to Ground

| | |
|-------------|-----------|
| Accuracy: | ±1 cycle |
| Resolution: | 0.5 cycle |

ORDERING INFORMATION

Item

PWV-001 (PowerWatch 120V NA VDR Only)
 Special PowerWatch Bundle: PWV-001 PowerWatch
 120V NA VDR, LIC-102 USB Cable, EventReader Software

Cat#:

01-0066
 01-0069

www.acrsystems.com

ISO 9001 Certified

ISO9000\SPECIFICATIONS\POWERWATCH120.pdf



Rev:6 - 10/29/12

