



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:	PowerWatch Software (Compatible with Windows 2000 SP4, XP SP1 and Vista 32 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)

Cat#:
01-0066

