

PowerWatch 120V

Product Specifications

Type: Voltage Disturbance Recorder
- North America

GENERAL POWERWATCH SPECIFICATIONS

Size:	85mm x 68mm x 52mm (3.35" x 2.65" x 1.35")
Weight:	120 grams (4 ounces)
Case Material:	Noryl® Plastic
Battery:	3.6 volt Lithium, guaranteed for 10 years
Fuse:	1/16A Fast-blow (Non-replaceable)
Clock Accuracy:	+/- 2 seconds per day
Memory Size:	32KB; capable of storing up to 4,000 events
Sampling Methods:	Continuous (First-in First-out), Stop When Full (Fill-then-stop)
Operating Limits:	-40 to 70°C (-40 to 158°F) and 0 to 95% RH (non-condensing)
Alarm Type:	Optical; 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:	IBM PC or 100% compatible with at least one free serial port, 2 MB RAM memory, and 2 MB of hard drive disk space



SURGE, SAG & OUTAGE MEASUREMENT SPECIFICATIONS

	<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

IMPULSE MEASUREMENT SPECIFICATIONS

	<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 + resolution	+/-10% of reading + resolution
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°

FREQUENCY MEASUREMENT SPECIFICATIONS

Range:	45 to 65 Hz
Accuracy:	+/- 0.1 Hz (3 cycles minimum)
Resolution:	0.1 Hz

TIME MEASUREMENT SPECIFICATIONS

	<i>Hot to Neutral</i>	<i>Neutral to Ground</i>
Events (<1 second)		
Accuracy:	+/- 0.5 cycle	+/- 1 cycle
Resolution:	0.5 cycle	1 cycle
Time Stamp (>1 second)		
Accuracy:	+/- 2 seconds per 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

Model#:

Cat#:

PWV-001

01-0066