

Product Specifications

PROVEN DATA LOGGING SOLUTIONS



ACR POWER

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) Noryl® Plastic Case Material:

3.6 volt Lithium, 1 Amp-Hour Battery: 1/16A fast-blow (Non-replaceable) Fuse:

± 2 seconds per day Clock Accuracy: Memory Size: 32 KB (4,000 events)

Sampling Methods: Continuous (First-in First-out), Stop When Full (Fill-then-stop) -40°C to 70°C (-40°F to 158°F) and 0 to 95% RH (non-condensing) Operating Limits:

Optical (flashing red LED) Alarm Type: Certifications: CSA: NRTL/C; UL3111-1

Surges, sags, impules, dropouts, outages, and frequency variations Event Types Detected:

Measurement Locations: Hot to Neutral and Neutral to Ground

Windows PC with at least one free USB or serial port (depending on interface) PC Requirements: Software Requirements: EventReader Software (Compatible with Windows XP, Vista, Windows 7 and

Windows 8 [32 bit & 64 bit])

Hot to Neutral

1 µsec minimum

MEASUREMENT SPECIFICATIONS

Surge, Sag & Outage

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

Hot to Neutral Impulse Range: 100 to 2500V peak Accuracy: ±10% of reading + resolution

Resolution:

Width Detection: Phase Angle:

> Accuracy: Resolution:

Frequency

Range: 45 to 65 Hz

Accuracy: ±0.1 Hz (3 cycles minimum)

Resolution: 0.1 Hz

Events (<1 second) Accuracy: Resolution: Time Stamp (>1 second)

Accuracy:

Resolution:

±1V rms + resolution

Neutral to Ground

3 to 200V rms

1V rms

Neutral to Ground 50 to 2500V peak

±10% of reading + resolution

10V

1 µsec minimum

 $\pm 1^{\circ}$ (20 to 180°, 200 to 360°)

Neutral to Ground

±1 cycle 0.5 cycle

Hot to Neutral ±0.5 cycle

0.5 cycle

±2 seconds/day + resolution

 $\pm 1^{\circ}$ (20 to 180°, 200 to 360°)

8 seconds



ORDERING INFORMATION

ISO 9001 Certified

ISO9000\SPECIFICATIONS\POWERWATCH120.pdf

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

Rev:6 - 10/29/12

