PowerWatch

Voltage Disturbance Recorder

Front



North America

120 Volt



Australia

240 Volt

Back





United Kingdom 240 Volt

Continental Europe 240 Volt

Use the PowerWatch as your first line of defence against power quality problems. Simply plug it into any power receptacle (120-volt North American or 220/240-volt Australian, European or UK) and begin monitoring and recording essential voltage disturbance information - surges, sags, outages, impulses, dropouts, and frequency variations. Set up your pre-determined disturbance threshold values or use the industry standard default values using PowerWatch software. No wiring or dangerous connections are required.

PRODUCT SPECIFICATIONS

POWER WATCH

Size:	MEASUREMEN	MEASUREMENT SPECIFICATIONS:	
85 mm x 68 mm x 35 mm (3.35" x 2.65" x 1.35") Weight:	Surge, Sag & Outage (120-volt version):		
120 g (4 oz)	songe, sog u	Hot to Neutral	Neutral to Ground
Case Material:	Range:	0 to 200 V rms	3 to 200 V rms
Noryl [®] plastic	Accuracy:	• • • • • • • • • • • • • • • • • • • •	+/- 1 V rms
Operating Limits:		+ resolution	,
-40 to 70°C (-40 to 158°F) and 0 to 95% RH (non-	Resolution:		1 V rms
condensing)		Outage (220/240-va	It version):
Battery:	50. go, 51. g	Hot to Neutral Neutral to Gro	
3.6 volt Lithium	Range:	0 to 400 V rms	3 to 200 V rms
Battery Life:	Accuracy:	+/- 2 V rms	+/- 1 V rms
10 years under normal use (factory replaceable)		+ resolution	,
Fuse:	Resolution:	2 V rms	1 V rms
1/16A fast-blow (non-replaceable)	Impulse:		
Memory Size:		Hot to Neutral	Neutral to Ground
32KB (4,000 events)	Range:	100 to 2500 V peak	
Storage Method:	Accuracy:	+/- 10% of reading	
First-in, First-out or Fill-then-stop	,	+ resolution	+ resolution
Sampling Method:	Resolution:	10 V	10 V
Continuous (half cycle integrated)	Width Detection	n: 1 µsec minimum	1 µsec minimum
Alarm Type:	Phase Angle:	·	
Optical (flashing red LED)	Accuracy:	+/- 1° (20 to 180°,	+/- 1° (20 to 180°,
PC Requirements:	,	200 to 360°)	200 to 360°)
PC running Windows 2000 SP4, Windows XP SP1 or	Resolution:	1°	1°
Windows Vista 32 bit. PC must have one free serial or	Frequency:		
USB port depending on connection.	Range:	45 to 65 Hz	
Software Requirements:	Accuracy:		
PowerWatch Software (required, see page 32 for details)	Resolution:	0.1 Hz	
Certifications:	Time:		
CSA, NRTL/C, and UL3111-1	Events (< 1 sec	c): Hot to Neutral	Neutral to Ground
	Accuracy:	+/- 0.5 cycle	+/- 1 cycle
	Resolution:	0.5 cycle	1 cycle
	Time-stamp (>	1 sec):	
	Accuracy:	+/- 2 sec/day + resc	olution
	Resolution:	8 seconds	

Order Information		
MODEL	COMPATIBILITY	CATALOG #
PWV-001	North America	01-0066
PWV-002-A	Australia	01-0205
PWV-002-U	United Kingdom	01-0200
PWV-002-E	Europe	01-0215

FEATURES

- Records essential voltage disturbance
 - events:
 - Surges - Sags
 - Outages
 - Dropouts

 - ImpulsesFrequency variations
- Records up to 4000 events
- 10-year battery life
- Safe, stand-alone operation
- No wires, alligator clips or other exposed wiring
- Hot-Neutral and Neutral-Ground monitoring

PowerWatch Software

For PowerWatch Voltage Disturbance Recorder Compatible with Windows® 2000 SP4, XP SP3 and Vista 32 bit



Easy setup and downloading

This powerful and easy-to-use power quality analysis software program is developed exclusively for ACR's voltage disturbance recorder, the PowerWatch. With no programming hassles or complex menus, setup and downloading occurs in seconds. Connection is simple: plug the optical interface cable (LIC-101 cable) into the serial port of your computer and point the other end to the optical port on the PowerWatch. Communication begins immediately. Detailed site reports are displayed for every voltage disturbance event recorded including:

- Hot-to-Neutral and/or Neutral-to-Ground Surges
- Hot-to-Neutral and/or Neutral-to-Ground Sags
- Hot-to-Neutral and/or Neutral-to-Ground Impulses
- Outages

al the time year of

Events per Period

• Frequency Variations

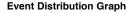
With the Quick Summary option, all events are summarized and displayed individually in a bar graph format. This helps determine power quality trends quickly and effectively. The Event Distribution Graph plots the magnitude of events against duration on a logarithmic scale, allowing you to determine the importance of the data (a single random event may not be as important as a cluster of events). The Event Distribution Graph also helps determine what kind of power quality problems you have as all 4000 events can be plotted on this graph. You have the choice of analyzing hot-to-neutral or neutral-to-ground events or showing both in different colors. The CBEMA Curve can be used to determine the importance of each event.

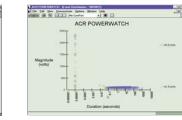
Detailed Site Reports

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Order Information

Quick Summary				
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ACR P	DWERWATCH			





MODEL	DESCRIPTION	CATALOG #		
PWV-100-USB	PowerWatch Interface Package* (USB)	01-0231		
PWV-100	PowerWatch Interface Package* (Serial)	01-0060		
PW	PowerWatch Software - Full Install	34-0004		

*Includes software on CD, interface cable, and manual

FEATURES

- Simple and easy to use
- User-selectable
 threshold limits
- Detailed site reports
- Hot-to-neutral and neutral-to-ground readings
- Quick summary option
- Determine event
 importance