Revolution[®]





REVOLUTION® WIRELESS POWER QUALITY RECORDERS 600V/5000A MAX

FEATURES & BENEFITS: Reduce fleet and labor costs with this small, rugged, lightweight	INPUTS	AC Voltage	0 to 600 RMS continuous per phase (±5 kV peak transients)
recorder. Continuously view, analyze and retrieve data. The Cell		AC Current	0 to 5000 amps
Revolution allows you to retrieve data wirelessly from anywhere you have an internet connection. The included ProVision software lets you monitor real-time current, flicker, voltage,		Sample Rate	1 MHz Voltage (16666 samples/cycle) 250 kHz current (4166 samples/cycle)
power and more from your desktop, or use a laptop, the PMI Field PC, or a PDA to monitor data from the field.	CHANNELS	Voltage	4 channels
600V CAT IV: Allows use in a wide range of monitoring —		Current	4 channels
environments	MEASURED	RMS Voltage	Volts
Pocket-size: Can be installed inside meter bases,	PER CYCLE Ar Re Pt	RMS Current	Amps
transformers, and panels		Real Power	Watts
Bluetooth [®] 2.0, Cell Phone Modem (optional) & Wi-Fi connection (optional): Stay safe with wireless data behind closed panel covers USB 2.0, built in Ethernet Networking (Optional):		Apparent Power	VAs
		Reactive Power	VARs
		Phase Angle	Degrees
For permanent installations		Power Factor	Watts/VA
High sampling rate:		Displacement PF	cos (phase angle)
Captures high speed transients up to 5000V and 1 MHz.		Power Usage	kWh, kVARh, kVAh
UL listed: Increased user safety —	ACCURACY	Voltage	0.33% of full scale
Large memory capacity: Longer recording time and very high resolution wave capture.		Current	1.0% of full scale w/o probe
New Features: E-mail & text alerts, network time sync.		Power	1.0% of full scale w/o probe
		Phase Angle	1.0° w/o probe
		Power Factor	±0.02 w/o probe
		Displacement PF	±0.02 w/o probe
_	POWER FAIL OPERATION		te without any input voltage for up to 30 to record down to 0 volts on all channels

during power outages.

Revolution

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1.84



HARMONICS	Voltage	to the 51st		
	Current	to the 51st		
	Measures	Magnitude, phase, THD		
COMMUNICATIONS	Standard	Bluetooth [®] 2.0 Wireless, USB 2.0		
	Options	Mobile Phone, Wi-Fi		
INFORMATION STORAGE	Data Storage	16 MB (Standard); 128 MB, 512MB or 1 GB (Optional)		
	Significant Change	1000 records		
	Flicker	1000 records		
RECORD SETTINGS	Interval Graphs	1 cycle to 4 hour interval, user selected, stop-when-full or wrap- around memory modes		
	Significant Change	1V to 8V in 1V steps		
	Flicker Settings	User-defined, or conform to IEEE 1453/ IEC 61000-4-15, and IEEE Std. 141		
	Waveform Capture	Voltage and current threshold, periodic capture, waveshape, event cross trigge		
	Transient Capture	Peak voltage threshold		
POWER SUPPLY REQUIREMENTS	Voltage	60-600VAC Channel 1 to Common (47-63Hz)		
	Power Consumption	5 Watts max, 15 VA max at 600V		
ENVIRONMENTAL	Operating Temp	-20°F to +135° F		
	Humidity	Less than or equal to 85%		
	Shock	60 Hz to 2 kHz, acceleration 25G		
	Vibration	10Hz to 60Hz, amplitude 1.8mm		
	Max Altitude	2.0km (6560 ft), derated above 2.0km		
PHYSICAL	Size	4.8" L x 3.35" W x 1.84" H		
DIMENSIONS	Weight	less than 1 lb		
	Case	NEMA 4X		
SAFETY	IEC 61010-1, 600V CAT I	V, UL listed		

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Wireless Power Quality Recorder

PROVISION SOFTWARE

ProVision[®] is the latest generation of PMI's popular, power quality analytical software for PCs. Virtually everything about ProVision's graphical user interface (GUI) has been redesigned—so it's not only easier to use, but also more flexible in the way it helps you to manage and report power quality data.

With ProVision's wireless communications features you can remotely initialize, schedule, download and manage multiple PQ recorders from within a single GUI. All recorder settings are viewable and configurable in real-time on your laptop or desktop PC. Once PQ data is downloaded to your computer, ProVision[®] gives you unprecedented control over the way it's viewed, managed and reported. You determine the way you want the software to search for and access your files. You choose your own scale, colors and font styles for viewing and printing. You can even insert your company logo to give reports and presentations a truly custom look.

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WANT EVEN MORE FLEXIBILITY?

With ProVision[®] you can create and print your own standard and custom reports, or if you prefer, send PMI your data in digital form and our exclusive, Custom Report Service will prepare and print professional looking reports to meet your unique needs.

ProVision[®] transforms real-time and stored PQ data into an array of colorful charts and graphs that make it easy to track long-term trends and identify problems during triggered events:

- Event Change
- Interval
- Single Cycle Voltage Histogram
- Significant Change
- Power Outage
- Flicker

Current Input w on CT Point to Lo Abnormal/Loose Neutral



- Interval Graph
- Out of Limits
- Histogram Graph
- Daily Profile Graph





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