



Revolution®



Cell Revolution®

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

FEATURES & BENEFITS:

Reduce fleet and labor costs with this small, rugged, lightweight recorder. Continuously view, analyze and retrieve data. The Cell 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, power and more from your desktop, or use a laptop, the PMI Field PC, or a PDA to monitor data from the field.

600V CAT IV: Allows use in a wide range of monitoring environments

Pocket-size: Can be installed inside meter bases, transformers, and panels

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): For permanent installations

High sampling rate:

Captures high speed transients up to 5000V and 1 MHz.

UL listed: Increased user safety

Large memory capacity: Longer recording time and very high resolution wave capture.

New Features: E-mail & text alerts, network time sync.

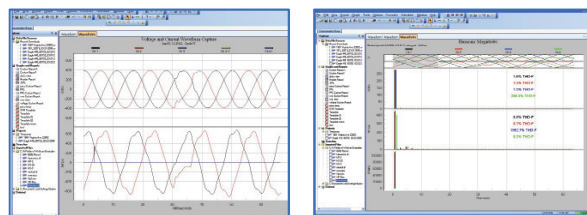
INPUTS	AC Voltage	0 to 600 RMS continuous per phase (±5 kV peak transients)
	AC Current	0 to 5000 amps
	Sample Rate	1 MHz Voltage (16666 samples/cycle) 250 kHz current (4166 samples/cycle)
CHANNELS	Voltage	4 channels
	Current	4 channels
MEASURED QUANTITIES PER CYCLE	RMS Voltage	Volts
	RMS Current	Amps
	Real Power	Watts
	Apparent Power	VA's
	Reactive Power	VAR's
	Phase Angle	Degrees
	Power Factor	Watts/VA
	Displacement PF	cos (phase angle)
	Power Usage	kWh, kVARh, kVAh
	ACCURACY	Voltage
Current		1.0% of full scale w/o probe
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	The recorder can operate without any input voltage for up to 30 minutes. This allows it to record down to 0 volts on all channels during power outages.	

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 triggers
	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 DIMENSIONS	Size	4.8" L x 3.35" W x 1.84" H
	Weight	less than 1 lb
	Case	NEMA 4X
SAFETY	IEC 61010-1, 600V CAT IV, UL listed	

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.



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
 - Abnormal/Loose Neutral
- Voltage, Current & Power:
 - Interval Graph
 - Out of Limits
 - Histogram Graph
 - Daily Profile Graph

