DRANETZ™
THE STANDARD FOR ENERGY & POWER MEASUREMENT

Dranetz Industry Leading Portable Products

Wieslaw Jerry Olechiw
Vice President of International Sales
Dranetz and Electrotek Concepts

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Dranetz 3 phase Power Monitors

Best - PowerXplorer
High speed transients
Advanced metering

Top of the line

Better - PowerGuide
Answer Modules
Additional recording depth

Great feature set

Good - PowerVisa
Entry level PQ
Meets PQ standards
Demand & Energy
Harmonics

Value oriented PQ monitor

Power Quality

Starter – Energy Platform
Demand & Energy Focus
3 phase metering
Harmonics
Limited PQ

Low cost, best in class power monitor

Power Flow

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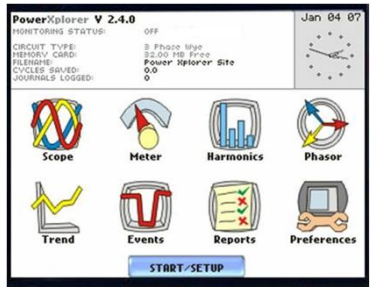
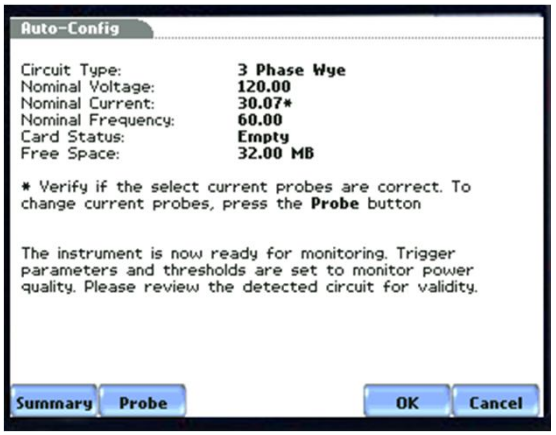
All products have many features in common



- User Interface
  - ¼ VGA Color Touch-Screen
  - Color Graphical Interface - Icon Based
- Easy to use
  - Automatic setups – Automatically detects circuit type!
  - 'Wizard' manual setups guides the user through settings
- Large Memory
  - 4GB (minimum) Compact Flash
  - Largest in the industry
- Includes many languages
- 'Best in class' measurements at every price point
- Compatible with DranView



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Common Features

- Data Acquisition
  - 8 Channels
    - 4 Voltage, 4 Current (AC & DC)
    - differential
  - 256 samples per cycle
  - Harmonics to the 63rd
  - Low Frequency Transients (up to 5kHz)
  - Medium Frequency Transients (5KHz – 500kHz)
- Accessories
  - All 4300 & 658 (w/adapter) compatible CTs
  - Weather resistant enclosures
  - Communication Adapters (Ethernet, USB & Serial)
  - Software
    - Dranview
    - Nodelink

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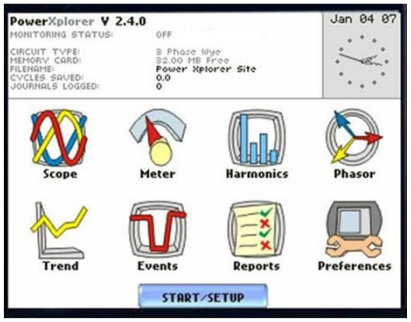
Common Features

- Triggers
  - VRMS & IRMS
  - V Transients & I Transients
    - Peak, rms & (2) waveshape
- Power parameters
  - W, VA, PF, etc.
- Harmonics, Interharmonics
- Flicker
- Many built-in languages



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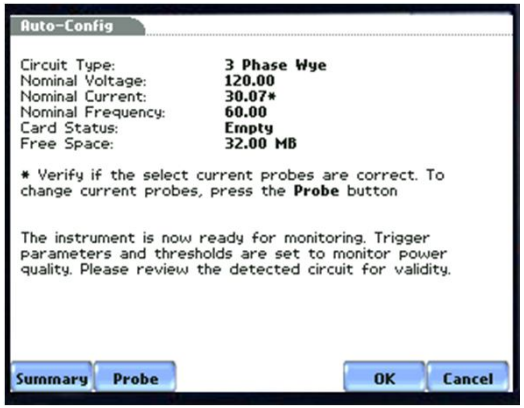
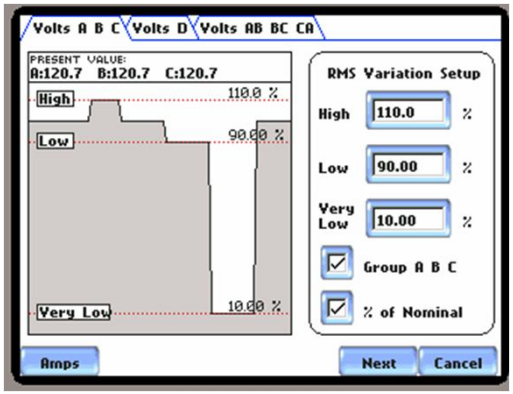
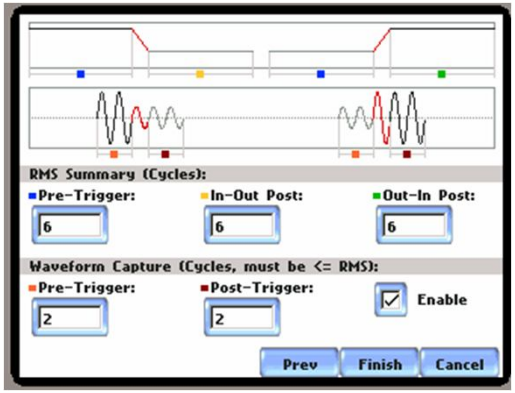
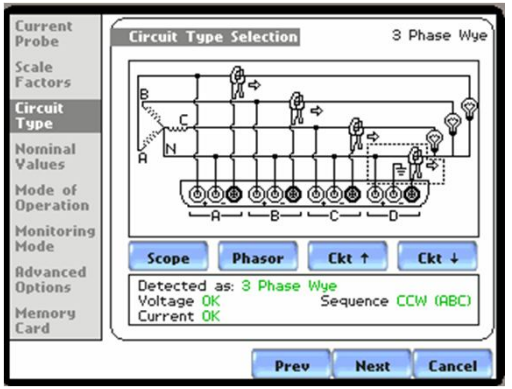
Ease of Use

- Automated and Manual setups!
  - Detects wiring configuration
  - Detects nominal voltages
  - Configures appropriately
  - Provides feedback of wiring mistakes
  - Just press OK to go









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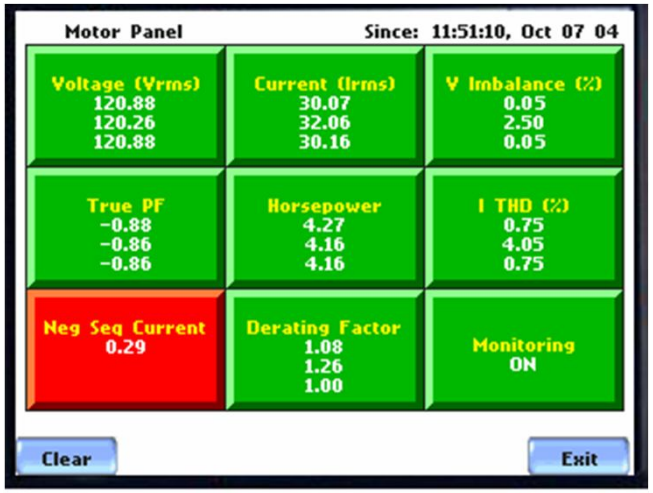
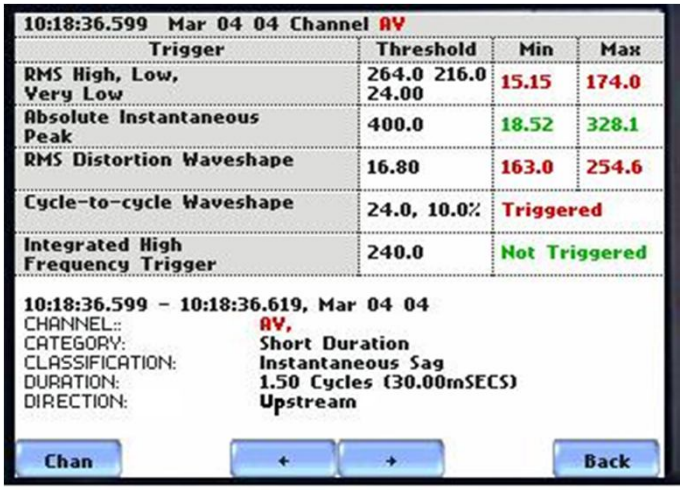
Answer Modules

- Available for PG4400, PX5 & PX5-400
  - Sag Directivity
  - PF Capacitor Switching
  - Motor Panel
  - *Not available on the PowerVisa*





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International Customers

Electric Utilities

Electricité de France
Enea –Poland
KW Belchatow - Poland
Energa – Poland
PSE - Poland
Electrabel – Belgium
Fecsa Endesa
Gesa Endesa
Unión Fenosa Distribución
EDF Energy
United Utilities
Northern Electric
Western Power Distribution
Companhia de Electriciadade, Macau
JiangSu EPRI, China
Sunnfjord Energi A/S/ Norway

ELES - Elektrogospodarstvo Slovenije Slovenia
Elektro Primorska Slovenia
HEP Transmission Company Croatia
HEP Distribution Company Croatia
Guangdong EPRI - China
Shanghai Municipal Electric Power Company
Shanxi EPRI - China
Companhia de Electriciadade, Macau
JiangSu EPRI, China
Sunnfjord Energi A/S/ Norway
Shanghai Municipal Electric Power Company
Shanghai Metro Traffic Co
China EPRI
HEFEI EPRI

Commercial / Industri

Olmex- Poland
Cuprum –Poland
Hewlett Packard – Netherlands
Kemira GrowHow Netherlans
Opel Belgium Antwerp
Volvo Ghent
Corus – Nthlds
AluminumSolvay
Daikin Europe
Ibm jAPAN
Belgian Navy

AIB Vinçotte
Port of Antwerp
European Research Inst.
Power Quality Control – Spain
Fundación Labein
Ayuntamiento Zaragoza
Instituto de Tecnología Eléctrica
Revoz/Renault Slovenia
Shanghai Metro Traffic Co

Finance / Banking

Banco de Peru
Banco Popular
Bloomberg, UK
Credit Suisse, UK

Consultant / OEM

Gamesa Eólica- Spain
Molinos del – Spain
EbroCiemat-Spain
Chloride Power Protection
Halcyon Drives
MGE

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International Customers

Railways

Metro de Madrid, S.A.
Dimetronic-Spain

Government

A.E.N.A. - Aeropuerto de Barajas
A.E.N.A. - Aeropuerto de Barcelona
A.E.N.A. - Aeropuerto de Gerona
A.E.N.A. - Navegación
AéreaRetes 22
Arsenal Militar del Ferrol
London Air Traffic Control
MI-5

Commercial / Industri

Olmex- Poland
Cuprum –Poland
Hewlett Packard – Netherlands
Kemira GrowHow Netherlans
Opel Belgium Antwerp
Volvo Ghent
Corus – Netherlands
AluminumSolvay
Daikin Europe
Zardoya Otis
Shanghai ZhengHua Harbour Machinery Corp.
Siemen China Factory Automation Co. Ltd/GDEPRI
AIB Vinçotte
Port of Antwerp
European Research Inst. Power Quality Control – Spain
Fundación Labein
Ayuntamiento Zaragoza
Instituto de Tecnología Eléctrica
CEPSA, S.A.
Peugeot EspañaAcerinox
Pfizer, UK
Renault, Sovenia
Sintef
Statoil
SKYGUIDE
Pfizer, UK
Renault, Sovenia
Elgar Sorenson

Computer / Information / Te

Vodafone España, S.A.
TVE
Informatica del Ayuntamiento de Madrid SDC Ltd

Consultant / OEM

Gamesa Eólica-Spain
Molinos del –Spain
EbroCiemat-Spain
NAVANTIA - Astillero del Ferrol
STM de Alta Tension
Construcciones y Montajes Industriales
Sistemas Electrónicos de Potencia
Mimaven Electrica
Tempe, S.A
Fullink UPS
Socomec

Education

Universidad de Zaragoza
Universidad de Málaga
Universidad Politécnica de Cartagena
Universidad de Oviedo
CITCEA - Universidad Politécnica de Cataluña
Universidad de Sevilla
Universidad de Cordoba
Universidad de Vigo
Universidad de Vigo

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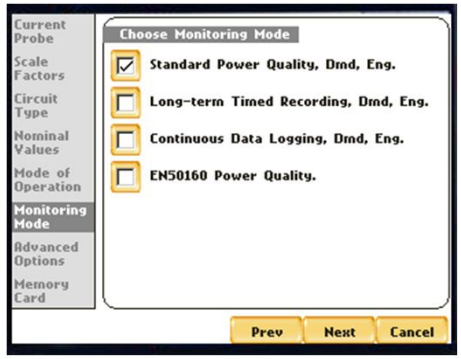
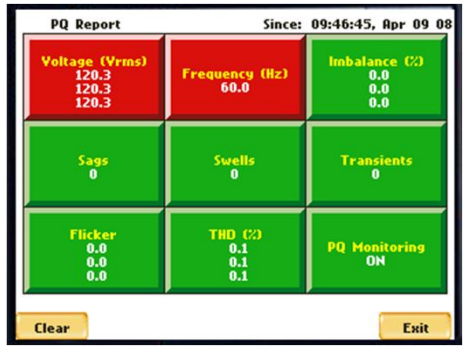
PowerVisa

- Powerful, yet cost effective PQ, Demand & Energy
  - Easy to Use
    - Color touch screen
    - Auto setup
    - Color report screen
  - 4 Monitoring Modes, 100 cycles per event capacity
  - Advanced energy monitoring
    - Simultaneously monitor PQ & Energy
  - Multiple Languages
  - IEC 61000-4-30 Class A compliance
    - IEEE harmonizing to this standard
  - Large memory
- Advantages – Why compromise?
  - PowerVisa offers the benefits & features customers expect from DBMI at the prices of less capable competitors!
  - DranView is far superior than any competitors SW





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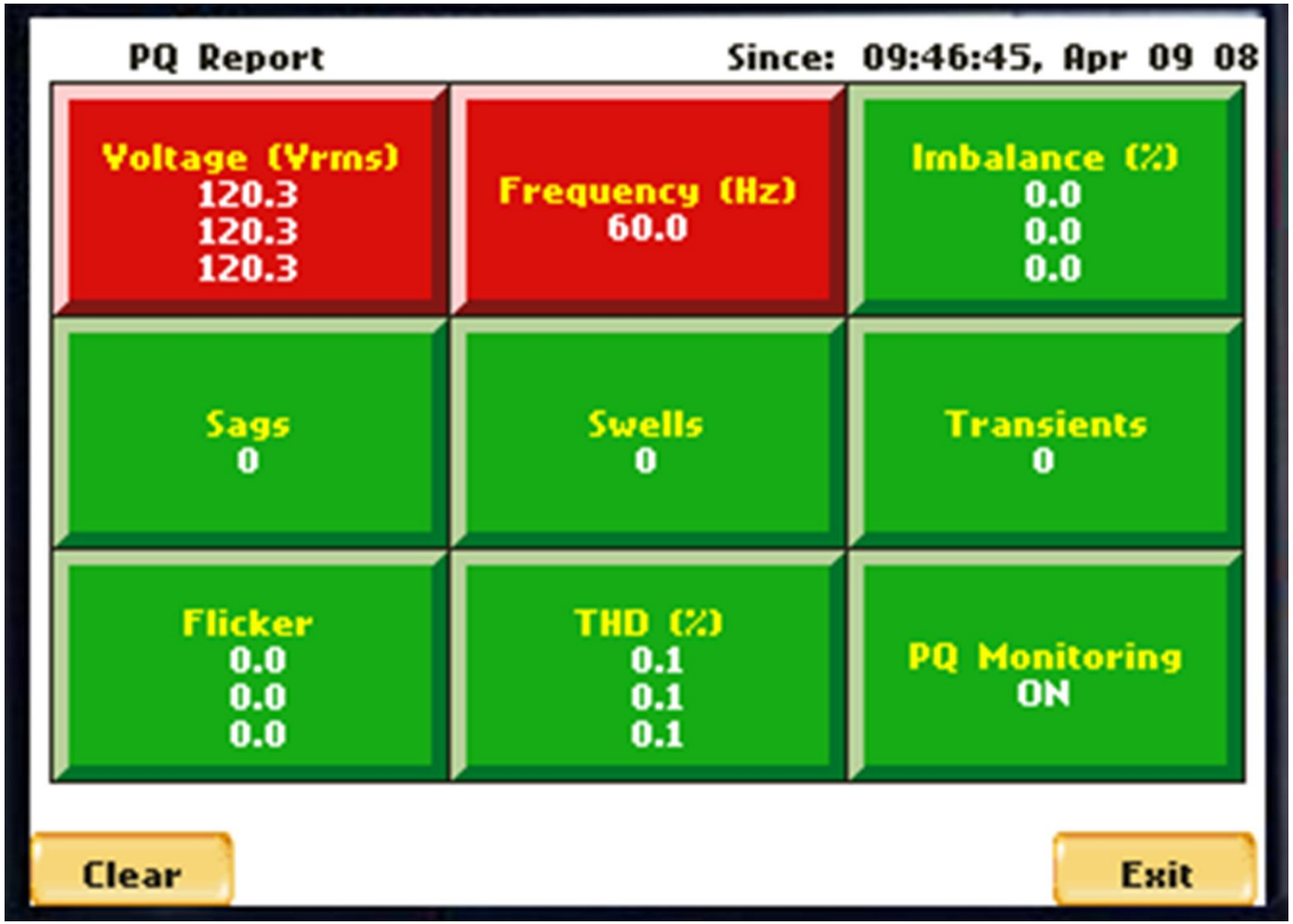
PQ Report



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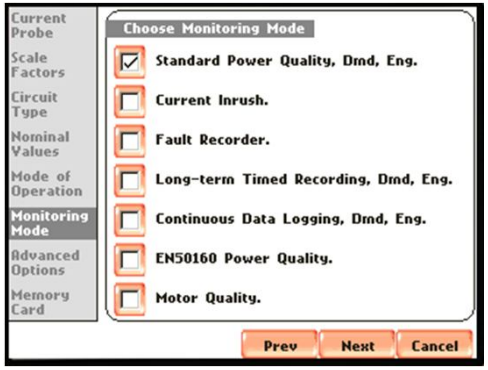
PowerGuide

- Power Visa Benefits & Features Plus
  - 7 Monitoring modes vs. 4
  - 11 Languages vs. 7
  - 10,000 cycles per event capacity vs. 100
  - Answer Modules
    - Sag Directivity
    - PF Capacitor
    - Motor Quality
- Advantages
  - Competitively priced
  - Large memory
  - More advanced capabilities than PowerVisa
  - Answer Modules provide a consultant in a box...



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PowerXplorer

- PowerGuide Benefits & Features Plus
  - High speed digitized transients to 1us
  - Advanced metering
  - PX5-400 adds 400Hz capabilities
- Advantages
  - Uncompromising PQ
  - Ease of use
  - Simultaneous energy capabilities

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Accessories

Energy Platform, PowerVisa, PowerGuide, PowerXplorer

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Flexible Current Probes

- Flexible CT's, Single Phase, AC Only
  - DRANFLEX3000XL – 30A,300A, 3000A ranges
    - Available in 24, 36 and 48 inch lengths
  - DRANFLEX6000XL – 60A,600A, 6000A ranges
    - Available in 24, 36 and 48 inch lengths
- Flexible CT's, Three Phase, AC Only
  - DRANFLEX3003XL – 30A,300A, 3000A ranges
    - Available in 24, 36 and 48 inch lengths
  - DRANFLEX6003XL – 60A,600A, 6000A ranges
    - Available in 24, 36 and 48 inch lengths

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MicroFlex Current Probes

- MicroFlex CT's, Single Phase, AC On
  - **MFLEX6PKG 3/30/300, 6" PROBE**

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Flexible Current Probe Power Supplies *New*

- Isolated Flex Probe Power Supplies
  - Isolated to reduce effects of power supply noise on sensitive CT's
  - Used with all Dranetz Flex CT's

- **ISOFLEX-MHXL4P*** Isolated power adapter with cable for up to four probes,

- **ISOFLEX-MHXL*** Isolated power adapter for one probe

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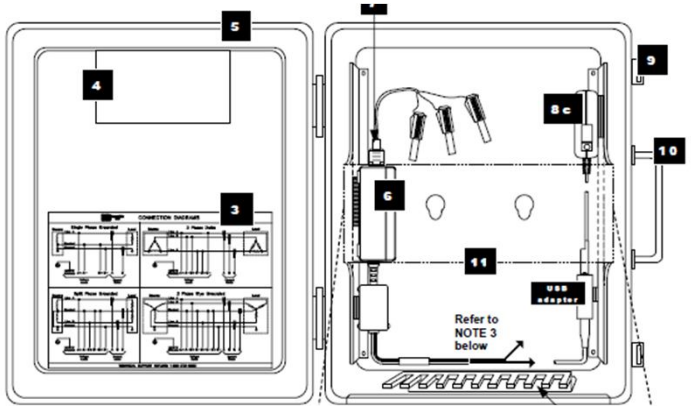
Miscellaneous Accessories

- **Communications Adapters (includes NodeLink)**
  - COMM-RS232 Fiber to RS232 adapter
  - COMM-OEA Fiber to Ethernet adapter with power supply
  - COMM-OUA Fiber to USB adapter
- CFDATA-DB CF Data Card
- BP-PX5 Battery Pack
- XBC-PX5US External Battery Charger/UPS
- VCP-4300 Voltage Cable Accessory Pack
- Enclosures & Cases
  - ENCL-HH 12 x 14 Fiberglass Enclosure
  - LPC-PX5 Lockable Portable Case
  - SCC-4300 Soft Carry Case
  - RSC-4300 Rugged Ship Container

COM-OEA

RSC 4300

LPC 4300



ENCL-HH

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Miscellaneous Accessories

- FVA-1 Single Fuse Voltage Adapter
- FVA-4 Set of four Fuse Voltage Adapters
- Reliable Power Meter/Fluke1750 Current Probe Adapters
  - TRTOREDEL Adapter for RPM Clamp-On CT's
  - TRTORFLEX Adapter for RPM Flex CT's
- PPA-PP1R/115 Phase Power Adaptor
- 83003967 Phase Power AC Cord

TRTORFLEX

Phase Power Adapter

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DranView 6 Introduction

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What is DranView?

- PC Based power analysis software
- Compatible with all current and many legacy Dranetz-BMI products
  - 4400/PX5
  - Power 1000
  - Encore Series
  - 4300, PP1, 658
  - PQDIF files
- Intuitive and easy to use Power Quality and Energy browser
- Visualization, Analysis and Reporting
  - Timelines/trends: Any parameter recorded by the instrument
  - Event details: Waveforms, text summaries, harmonics
  - Multiple level zooming into all data
- Report writer for automatic or custom/editable reports

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What is DranView?

- Multi-pane browser
  - Timelines, event details, event lists, etc are displayed in separate panes (windows) within DranView.
  - Each panel relates to the others: Select a point on the timeline or event list and the event details at that point in time are displayed in another pane.
- Rescue Kit
  - Correct and make adjustments to monitoring results.
  - Examples: Adjust times, flip probes, change scaling, etc…
- Special features such as the Harmonics Demo Tool

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DranView 6 Introduction

- HASP based license
  - Supplied with the latest secure HASP technology
  - Site license available for 11+ users
- Many standard features including:
  - Automatic Internet program updates
  - Unlimited undo/redo
  - Event sorting and filtering
  - Scrollable/Rollable axis'. Panning & rubber band viewing
  - Report writer always creates RTF files. Built-in RTF editor
  - Report writer detects monitoring mode and defaults appropriately
  - Standard Rescue Kit

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DranView 6 Introduction

- DranView 6 is available in two versions. Each version has packages available for different instruments and combinations.
- DranView 6 PRO – Powerful, yet easy to use - Intended users:
  - Entry level users. Simplified feature set
  - Knowledgeable users who do not require the advanced features of Enterprise
  - Single site. Those who view data one site at a time and typically do not use many instruments simultaneously
  - Costs sensitive users
- DranView 6 Enterprise – Advanced feature set - Intended users:
  - Users who prefer an advanced feature set. Many new features not available in PRO
  - Multiple sites. Those who use multiple instruments in parallel or need to easily compare data between sites or instruments.
  - Those that require different file formats such as PQDIF, COMTRADE
  - Those who write reports and do presentations of data
  - Those who can benefit from an expert consulting tool

Note: Orange splash screen like the 4400

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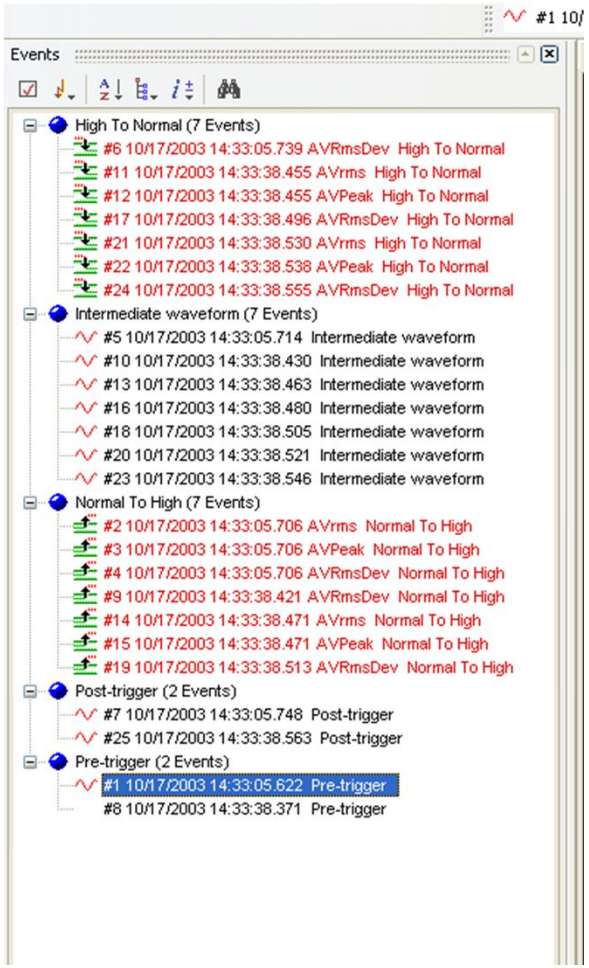
DranView 6 PRO

- General look and feel of DV5
  - Users should be very comfortable with the transition
- Automatic Internet updates
- Data analysis enhancements
  - Scrollable – Pan left/right, up/down
  - Rubber band – stretch and contract data
  - Note: Zoom capabilities remain unchanged
  - Chart area marking tool
  - Format templates
- Event pane
  - Event sorting and filtering



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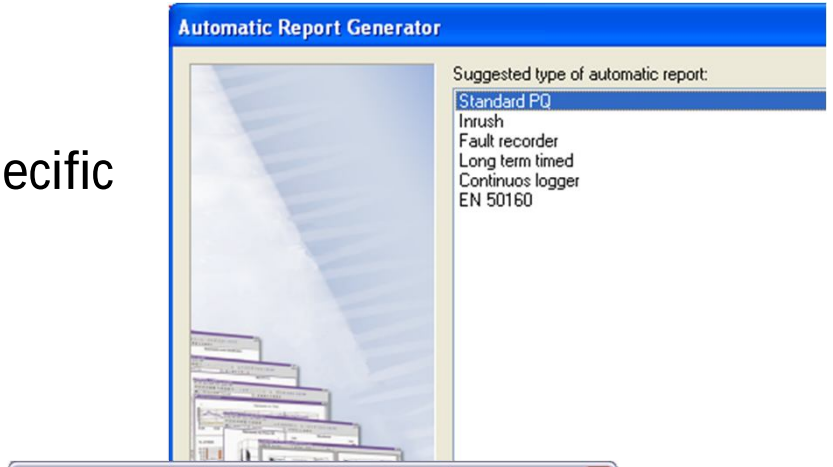
DranView 6 PRO

- Report Writer enhancements
  - Monitoring Mode (4400/PX5) specific reports
  - Integrated RTF text editor
- Rescue Kit
  - Applies to all instrument types
  - Adjust time stamps
  - Reverse current probes
  - Change scaling
  - Change connection type



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DranView 6 PRO

- Waveform post processor. For any waveform compute
  - Vrms, Irms, Vpeak, Ipeak,P, Q, S, VThd, IThd, PF, DPF, Frequency, Phase angle difference, Totals, L-L to L-N conversions
  - Harmonics & Phase angles
  - V & I Symmetrical components
  - V& I Unbalance factors
- Personal Notes
  - Add personal notes to the file. Comments, observations, etc…
- Significantly faster with better large file support

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Dran-View Enterprise
Version 6.0.19

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Exclusive Demo (85 days remaining)

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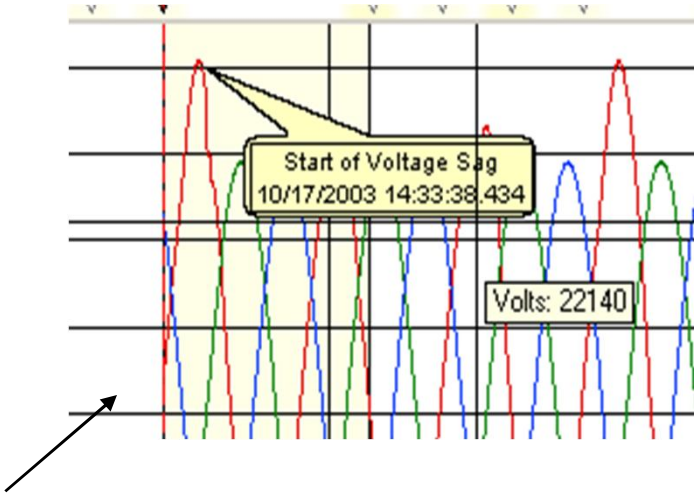
DranView 6 Enterprise

- Includes all DV6 PRO features plus…
- File formats
  - Read COMTRADE
  - Read PQDIF
  - Read ASCII text files (*.txt, *.csv, *.skv)
- Event data removal
- User interface & data analysis
  - Balloon text. Insert floating annotations
  - Drag & drop charts. Add and configure multiple data windows
  - Insert pictures
  - Customize toolbars, keyboard shortcuts



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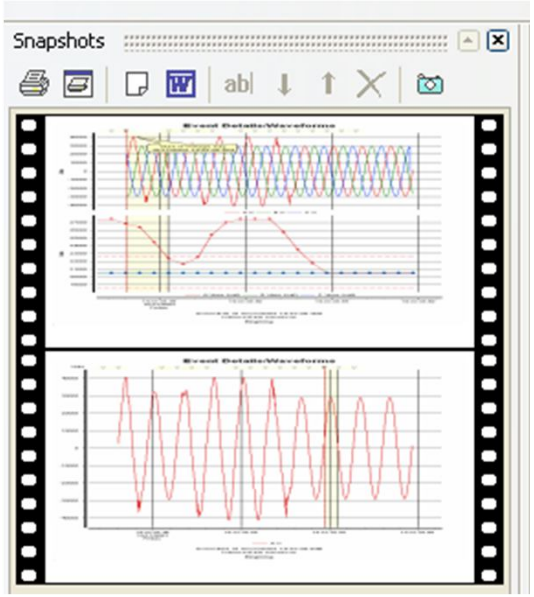
DranView 6 Enterprise

- Camera
  - Take a snapshot (bookmark) of a window (pane) for future reference
  - Makes a record of a particular analysis configuration
    - Zoom, channels, colors, etc
    - Just select snapshot to display again
  - Create a filmstrip of snapshots
  - Easily create a Word file with all snapshots
- Report Writer
  - Insert pictures, diagrams, etc
  - Add selected and trends to a report
  - Reports for EN, IEC, G5/4, NVE standards
  - Multi-site report writing



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DranView 6 Enterprise

- Multi-Site Compare & correlate data from several sites/instruments
  - Up to 16 simultaneous data sets
  - Multi-site time synchronization
  - Mathematical comparisons between sites. Difference, etc…
- Event data removal
- User interface & data analysis
  - Drag & drop charts. Add and configure multiple data windows
  - Insert pictures
  - Balloon text. Insert floating annotations
  - Customize toolbars, keyboard shortcuts

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DranSet Introduction

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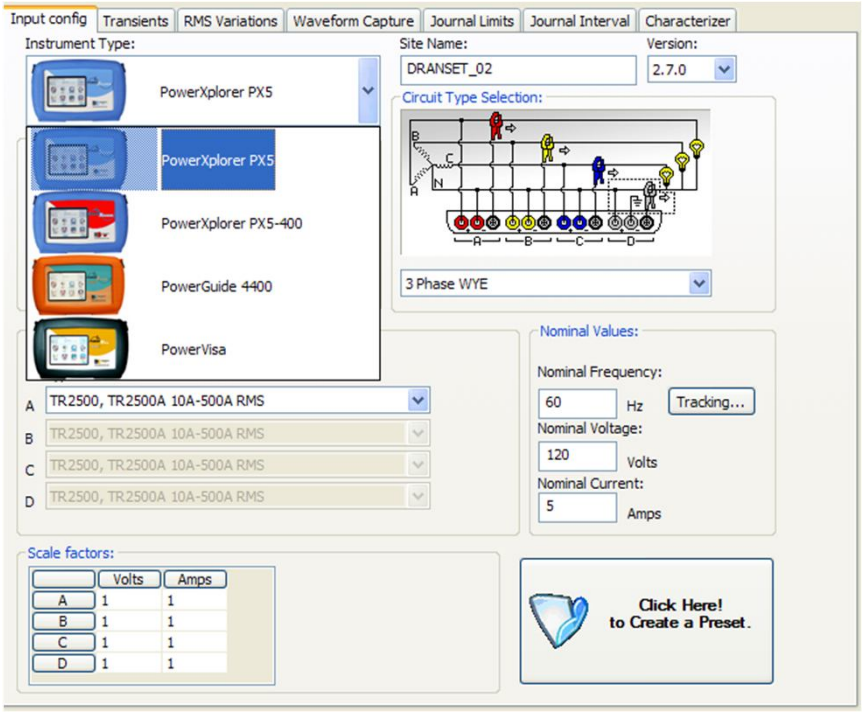
What is DranSet?

- Intuitive and easy to use setup utility software
- Create/edit monitoring setups without instrument
- For use with Dranetz-BMI models
  - PX5-400
  - PX5
  - PG4400
  - PowerVisa



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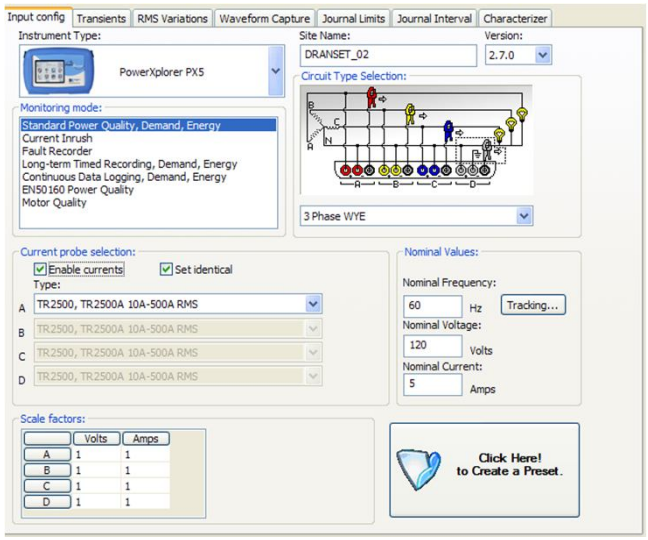
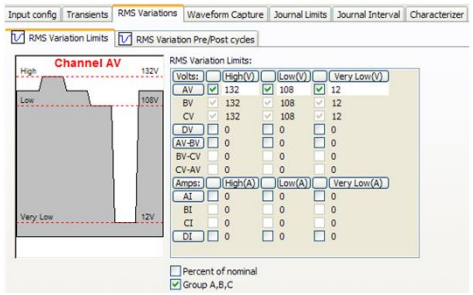
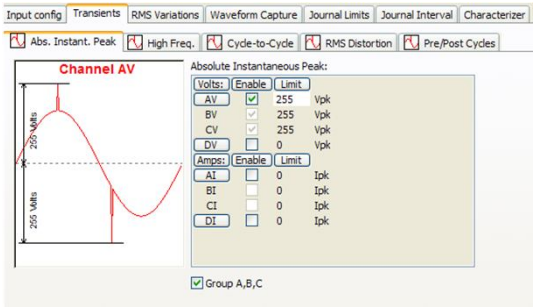
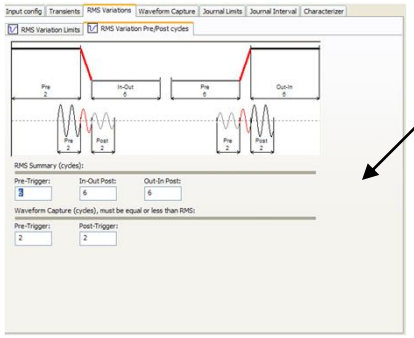
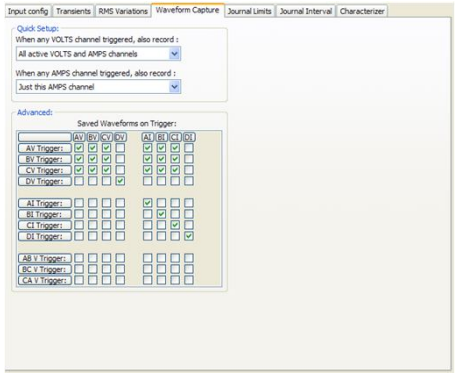








Easy to read & detailed windows



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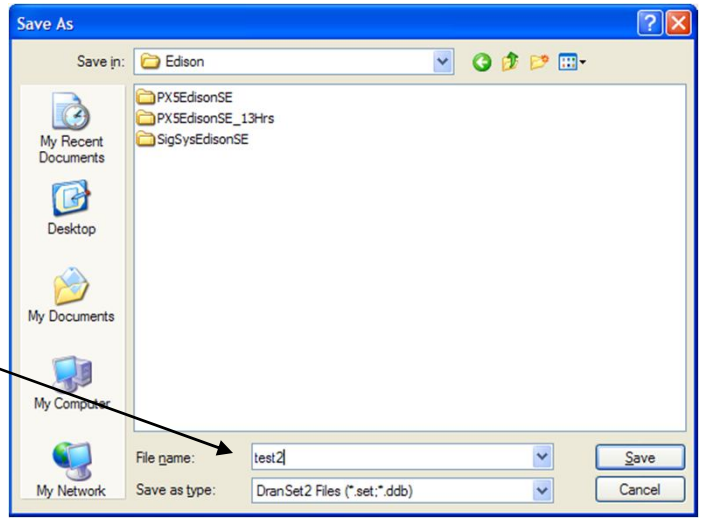
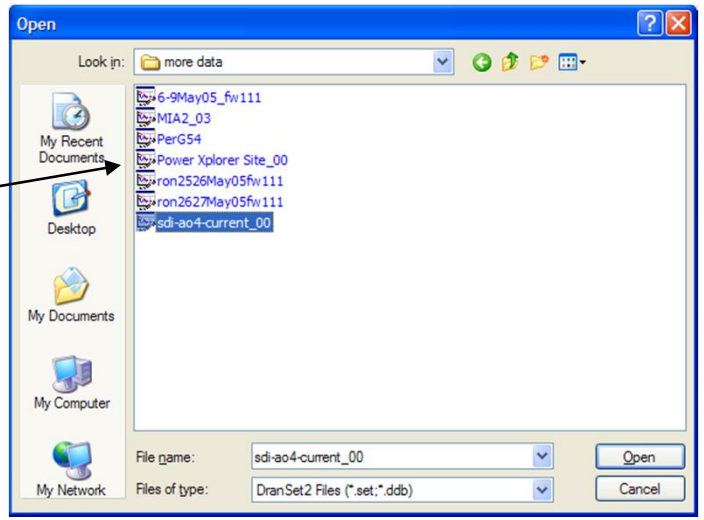
Create new setups





Read existing setups
even from data (ddb) files

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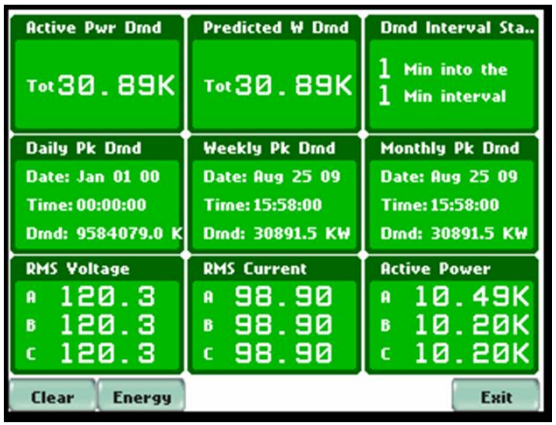
3 Phase Power Monitoring

Energy Platform EP1



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What is the EP1?

Portable, 3 phase instrument for Energy monitoring applications such as

- Electrical energy reduction & cost savings programs
  - How much energy is used? Where and when used? Daily, Weekly & Monthly KW/KWh
  - Determine energy costs
  - Determine electrical Carbon Footprint
- Alternative energy such as wind and solar
  - Monitor individual generators (panels, windmills) or total generation.
  - DC monitoring for solar applications.
  - Direction of energy flow. Producing or consuming electricity

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What is the EP1?

Portable product for Energy monitoring applications such as

- General power studies
  - V, I, W, VA, VAR, PF, Demand, Energy + more
- NEC 220.87 demand surveys
- Load testing, commissioning
- Harmonic studies
- Simple PQ studies

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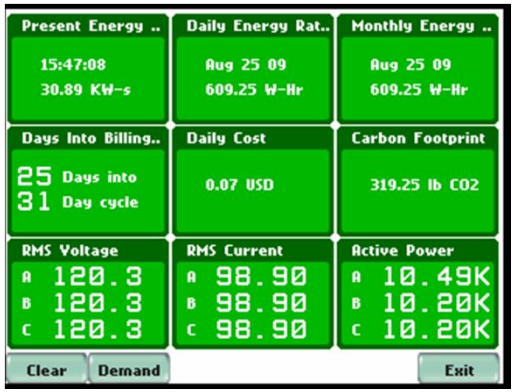
EP1 User Benefits

- Powerful, yet very affordable power monitoring!
  - Better features and easier to use than competition but at a similar price
- Lightweight portable instrument – 3.8lb (1.8Kg)
- Colorful user interface – No PC software required
  - ¼ VGA color touch screen
- Easy to read Energy & Demand reports
- Carbon Footprint Calculator
- EPRW software (no license) included
  - EPRW: **E**nergy **P**latform **R**eport **W**riter software provided at no charge
  - DranView optional
  - New DranView energy audit report for use with EP1 & PX5 family products



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EP1 User Benefits

- Large Compact Flash memory for long duration surveys
- Automatic setup
  - No operational training required
  - Easy to use manual setups also available
- High resolution
  - 256 samples per cycle. 8 channels, 4V, 4I. Cycle by cycle accumulation with no gaps in measurements!
- High accuracy
  - 0.1% V&I (plus transducers)
- Packages include all that you need!
  - EP1, voltage cables, CT's, CF Card, Case, EPRW software
- Additional accessories available
  - DranFlex XL CT's, Clamp CT's, Enclosures + more
  - Compatible with the PX5 family

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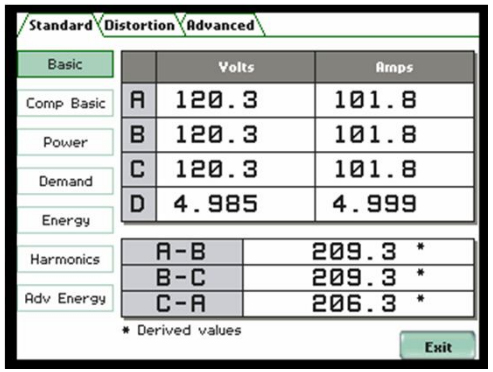
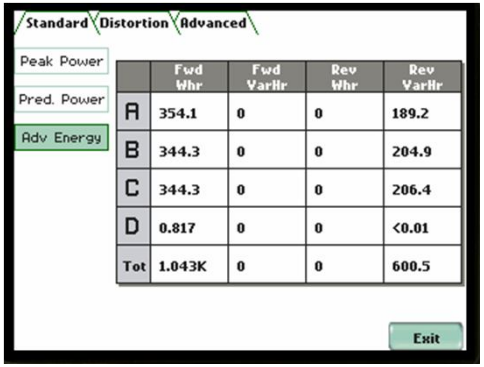
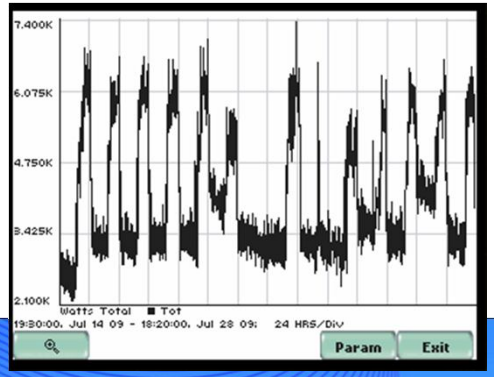
EP1 Feature Set

- Measured, Trended & Triggered Parameters
  - Very similar to PowerVisa
  - Cycle by cycle V & I. 256 samples/cycle
  - CAT III 600V
  - Power – Trend min, max, ave
    - V, I, W, PF. DPF, TPF
  - Distortion – Trend min, max, ave
    - Vthd, Ithd. VTID, ITID, TIF, TDF, K Factor
  - Demand
    - Active, Apparent, Reactive Power Demand
  - Energy
    - KWh, KVAh, KVARh, Forward & Reverse Energy

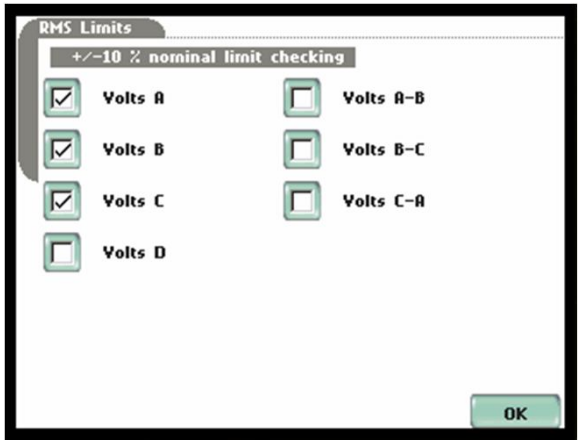






EP1 Feature Set

- Measured, Trended & Triggered Parameters
  - Journal trending and triggers work as PowerVisa
    - 200ms resolution on V, I, W, VA, VAR, THD, Harmonics, interharmonics and other parameters
  - Voltage and Current Power Quality is available but limited
    - Sag/Dip & Swell only
    - Cycle by cycle detection
    - No waveforms are available. Text summary of events only
    - Thresholds are fixed to +/- 10% of nominal automatically detected or manually entered.
    - Customer cannot change PQ limits. Can turn PQ triggers on and off
  - Flicker is not available



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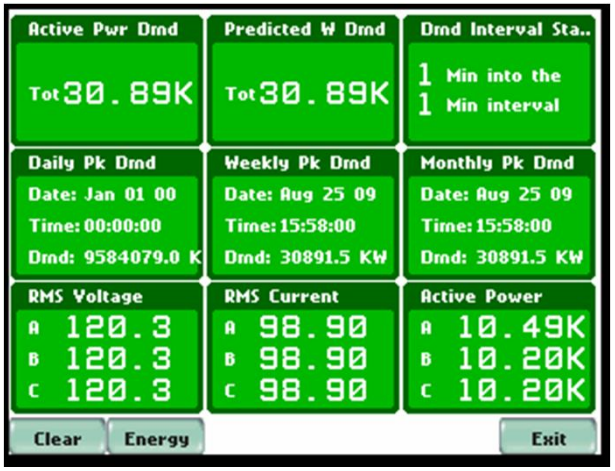
Applications Guide

	PowerVisa / Power Guia	***EP-1***
Power Quality Testing (IEC61000-4-30 Class A, IEEE1159)	X	
Energy / Load Surveys & Studies	X	X
Carbon Footprint Calculator		x
Full Differential Channels	x	D Channel
EPRW Software		x
Motor Testing	X	X
Data Logging	X	X
Harmonic Analysis to 63rd (IEC61000-4-7, IEEE519)	X	X
Flicker per IEC61000-4-15, IEEE1453	X	
Monitoring Modes	4	7
Pre / Fault / Post Cycles	100	
12 Languages	x	X

EP1 Reporting

- Easy to read reports summarize your survey
- Demand Report
  - Present Demand
    - Present demand of the circuit
  - Demand Interval Status
    - Shows time into the demand interval such as 11 minutes into a 15 minute interval
  - Daily, Weekly & Monthly Peak Demand time/date
    - Customers can be billed on peak demand
    - This report shows the date and time of the peak demand for the current day, week and month
  - Real Time V, I, W meter
    - Present metered values
    - Same as meter screen



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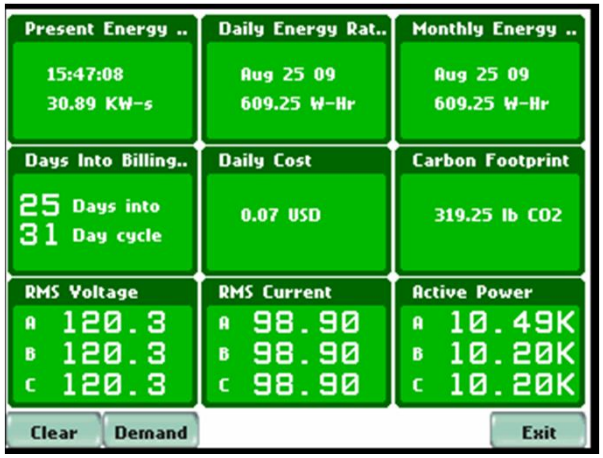
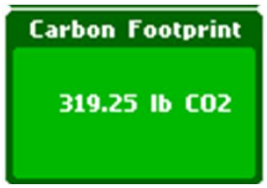
EP1 Reporting

- Energy Report
  - Billing cycle status
  - Daily & Monthly Energy
    - Easily know how much energy is used.
  - Carbon Footprint calculator
    - Carbon Footprint represents the Carbon Dioxide CO_2 produced generating electricity consumed.
    - Various generation methods have different carbon footprints, i.e. coal, gas, oil, nuclear, hydro, wind, solar generation have a different impact on the environment. The lower the number, the less CO_2 produced.
    - Usually represented in pounds/KWh or Kg of CO_2 per KWh consumed
    - Can be an average representing all types of generation used by the utility.
    - Example: Pacific Gas & Electric (California, USA) publishes a Carbon Footprint of 0.524 pounds CO_2 /KWh of energy used.
  - Real Time V, I, W meter
    - Present metered values, Same as meter screen





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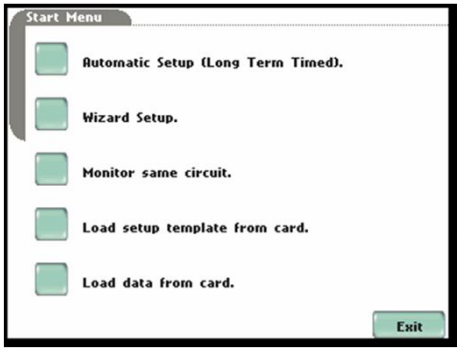
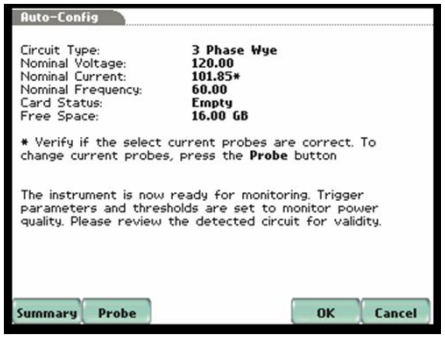
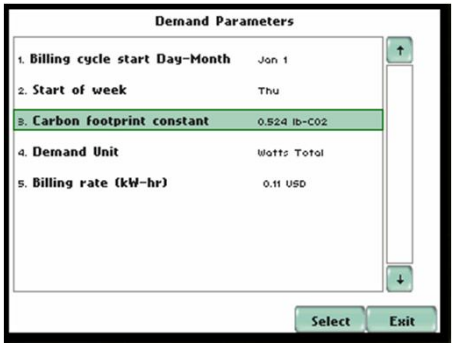
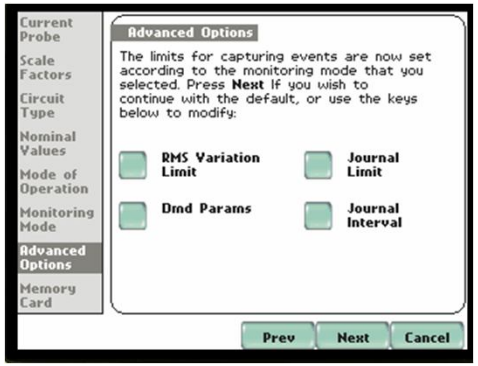
EP1 Setups

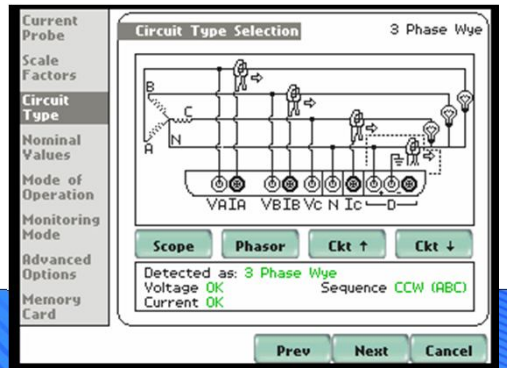
- Automatic setups
  - Automatic detection of Circuit Type
  - Factory default settings
  - User can select probe type
- Manual Setups – Wizard
  - Customize recording and reporting parameters
    - Journal triggers – High/Low limits
    - Journal intervals – Demand interval, power& harmonics intervals
    - Demand unit – W, VA, VAR
    - Carbon Footprint – Pound or Kg, multiplier





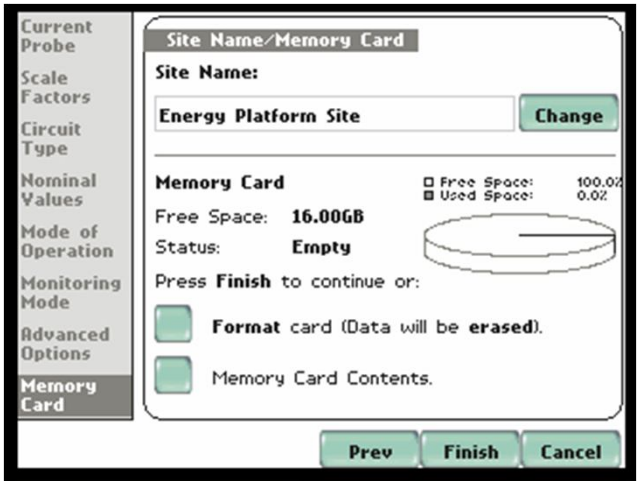






EP1 Setups

- Compact Flash Data Storage
  - 4GB (min) Compact Flash (CF) provided
  - Data and setups stored on CF card
  - Maximum file size is 256MB. Automatically starts a new file if fills during monitoring
  - CF Card is used to load data into the PC and for EPRW, DranView
    - Standard CF card reader used. USB, built into laptop, etc.
- EP1 has the largest data storage of any manufacturer



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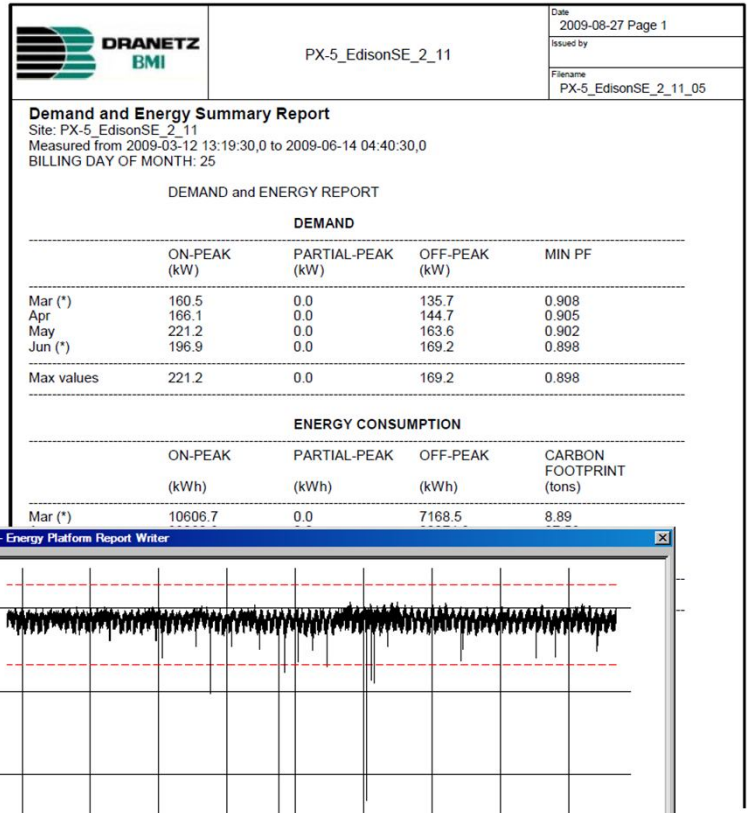
EPRW PC Software

- **E**nergy **P**latform **R**eport **W**riter software
  - Included in package at no additional cost
  - ***Unlicensed – No HASP***
  - Automatically produces an energy audit report in an RTF format
    - User selects time range of report
    - Includes Energy expense summary
    - Time Of Use Billing, Trended data
  - Export data to .CSV files for use in other software such as Excel



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PX-5_EdisonSE_2_11

Date 2009-08-27 Page 1
Issued by
Filename PX-5_EdisonSE_2_11_05

Demand and Energy Summary Report
Site: PX-5_EdisonSE_2_11
Measured from 2009-03-12 13:19:30,0 to 2009-06-14 04:40:30,0
BILLING DAY OF MONTH: 25

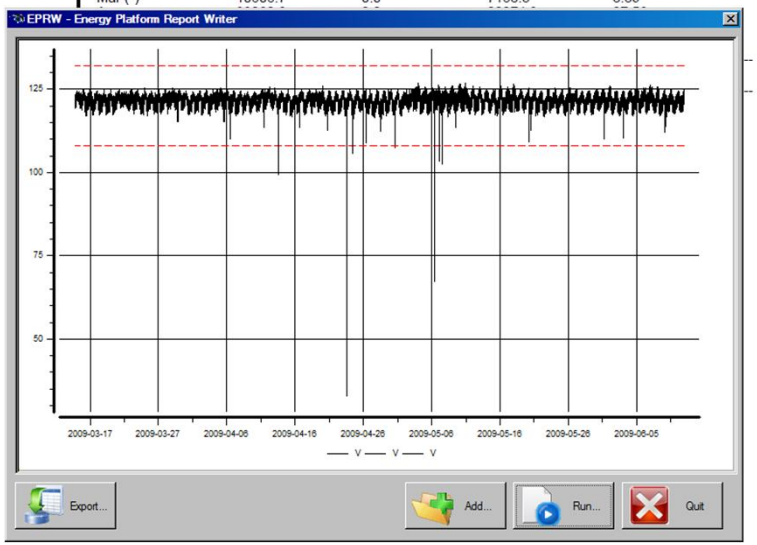
DEMAND and ENERGY REPORT

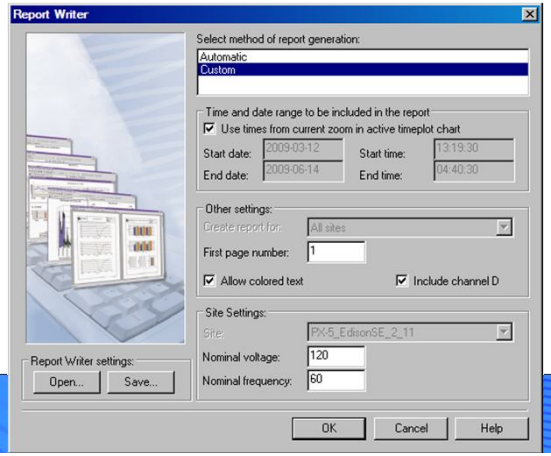
DEMAND

	ON-PEAK (kW)	PARTIAL-PEAK (kW)	OFF-PEAK (kW)	MIN PF
Mar (*)	160.5	0.0	135.7	0.908
Apr	166.1	0.0	144.7	0.905
May	221.2	0.0	163.6	0.902
Jun (*)	196.9	0.0	169.2	0.898
Max values	221.2	0.0	169.2	0.898

ENERGY CONSUMPTION

	ON-PEAK (kWh)	PARTIAL-PEAK (kWh)	OFF-PEAK (kWh)	CARBON FOOTPRINT (tons)
Mar (*)	10606.7	0.0	7168.5	8.89





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DranView PC Software

- Optionally available for use with EP1
- New driver to read EP1 data
- New Energy Audit report added to the DV report writer
  - Energy Audit report is similar to EPRW reporting features
  - Demand & Time Of Use reports

Time of Use Billing
Site: Willows Concession final
Measured from 07/14/2009 11:12:09.0 to 07/29/2009 02:37:01.0
BILLING DAY OF MONTH: 1

TIME OF USE COSTS

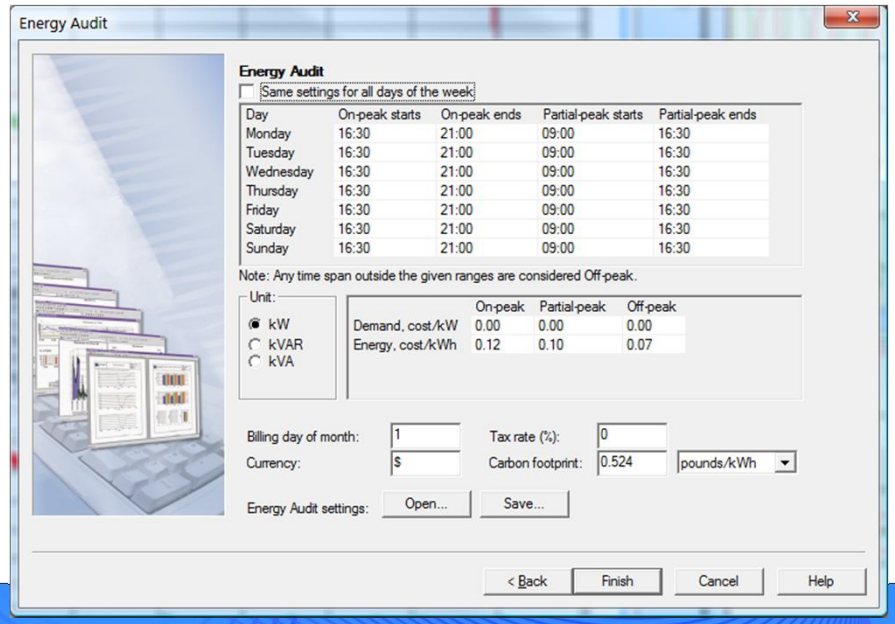
DEMAND

	ON-PEAK ($)	PARTIAL-PEAK ($)	OFF-PEAK ($)
Jul (*)	0.0	0.0	0.0

ENERGY CONSUMPTION

	ON-PEAK ($)	PARTIAL-PEAK ($)	OFF-PEAK ($)
Jul (*)	36.6	50.4	39.7
Total values	36.6	50.4	39.7

(*) Indicates partial month.



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