Energy Platform

Demand & Energy Analyzer

In today's environment of rising energy costs and opportunities for green initiatives, understanding your energy profile is more important than ever. Where and when electricity is consumed is an essential part of any energy management program - "What gets measured gets done".

Energy Platform EP1 from Dranetz-BMI is an innovative and essential tool for any electrical energy monitoring application. Whether you want to understand your utility costs, improve efficiency, install energy savings devices, explore alternative energy solutions or even determine your carbon footprint, Energy Platform provides the essential monitoring tools to meet your energy monitoring needs. Energy Platform's ¼ VGA color touch display, automatic setups, easy to read reports and EPRW report writer software provide a simple to use, yet powerful tool for any application.

Measured Parameters

Volts, Amps, Watts, Volt-Amperes, Volt-Amperes Reactive, True Power Factor, Displacement Power Factor
Demand (conforms to NEC 220.87), Energy, Forward Energy, Reverse Energy.
Harmonics & Interharmonics Per IEC 61000-4-7,
THD/Harmonic Spectrum, TID/Interharmonic Spectrum (V, I, W) to 63rd
Crest Factor, K Factor, Transformer Derating Factor, Telephone Interference Factor

Measurement Specifications

(4) Voltage Channels, 1-600 Vrms, AC/DC, 0.1% rdg + 0.05% FS, 256 s/c, 16 bit ADC. CH A, B, C single Ref., Ch D diff. reference.
(4) Current Channels, 1-6000 Arms, CT Dependent, AC/DC, 256 s/c, 0.1% rdg + CTs, 16 bit ADC
Frequency Range: 45-65 Hz Phase Lock Loop, 10 mHz Resolution,

General Specifications

Display: ¼ VGA Color Touch Interface
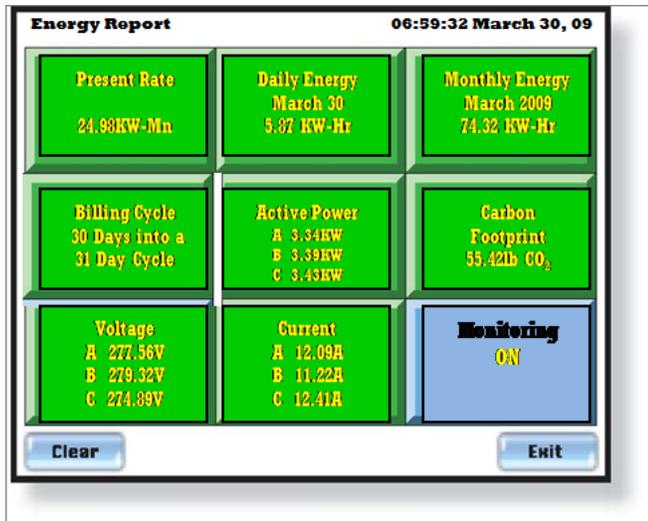AC Power Supply/Charger: 90-264VAC, 47-63Hz. 2hr Rechargeable Battery
Size: (HxWxD): 12" x 2.5" x 8"; Weight: 3.8 lbs
Operating temperature: 0 to 50 degrees C; Storage temperature: -20 to 55 degrees C Humidity: 10 – 90% non-condensing
Removable Memory: Compact Flash, up to 32GB

Demand & Energy Reporting

The Energy Platform's easy to read Demand and Energy report provides essential monitoring results in an easy to read summary. Each square shows the present real time readings and is color coded to easily see if a parameter has exceeded any triggered conditions. A green square means the parameter is within limits. Blinking red means the parameter has exceeding your monitoring limits.

Harmonics

As the sensitivity of power electronics increases, equipment ranging from HVAC systems, personal computers and copiers to computerized process equipment and manufacturing systems are susceptible to harmonic pollution. In fact, harmonics can cause small, almost imperceptible variations in performance that aggregate to effect significant long-term damage. Current harmonics generated by a source can pollute the entire power system without being affected itself. The Energy Platform captures detailed harmonics, interharmonics and subharmonics to effectively troubleshoot the complex problems caused by these events.
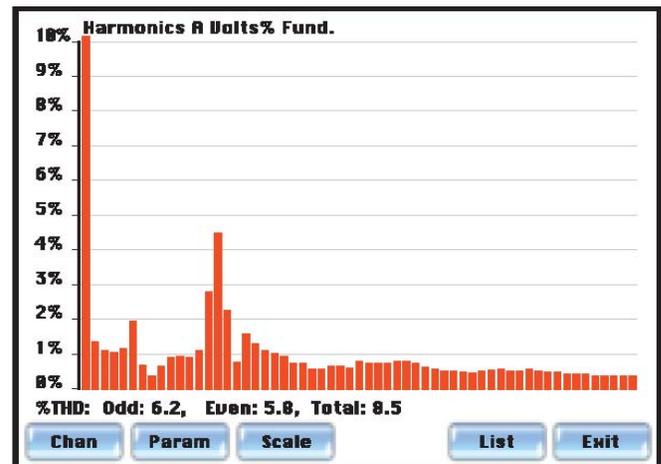

PC Software

Energy Platform Report Writer software (EPRW) is included with every EP1. EPRW is unlicensed (no HASP) and summarizes your survey, producing easy to read, user selectable reports including, voltage & current, harmonics, demand & energy, time of use and energy cost calculator using your energy rates. Reports are created in a RTF format for easy use in any text editor. Data can also be exported to a .csv file format for us in Microsoft excel or other software packages.

For more advanced applications, EP1 is fully compatible with our award winning DranView (optional) software that provides advanced analysis in an easy to use software package. DranView also has advanced features such as bookmarks, zooming, rubber banding, balloon annotations, math functions and can even include your company's logo. DranView is used world-wide by thousands of power professionals to analyze data taken on Dranetz-BMI products.

Packages*

EP10-4	10A Clamp Package (EP1, voltage cables, soft case, EPRW Software, CF card, 4 x 1-10A CT's)
EP500-4	500A Clamp Package (EP1, voltage cables, soft case, EPRW Software, CF card, 4 x 10-500A CT's)
EP550-4	100A Clamp Package (EP1, voltage cables, soft case, EPRW Software, CF card, 4 x 1-100A CT's)
EPFLEX3K-4	Flex Package (EP1, voltage cables, soft case, EPRW Software, CF card, 1 x 3 phase 3000A Flex CT, 1 x 3000A Flex CT, Flex power supply)

* *DranView software, additional CT's, enclosures and other accessories are optionally available.*