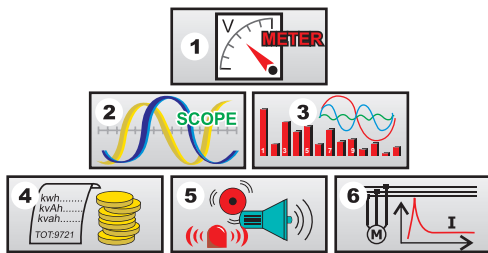
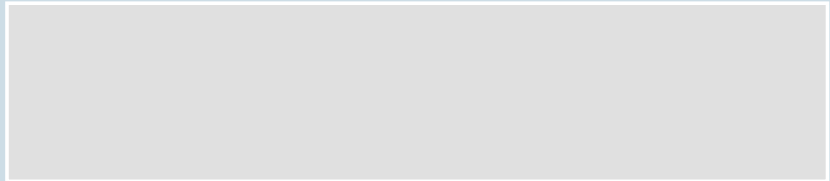




ENERGY EXPLORER

PROFESSIONAL POWER QUALITY ANALYSER



BRIEF ABOUT ENERGY EXPLORER

ENERGY EXPLORER, is an advanced Power Analyser, designed for use by electricians, plant engineers and energy professionals.

ENERGY EXPLORER provides fast and accurate measurement of all standard parameters loads, such as the TrueRMS values of Voltage, Current, Frequency, Powers, Power Factor/CosO, Energy. It extends the analysis also to transient conditions of the load, using built-in Inrush Current function allowing voltage and current monitoring with pre-triggering.

The load's consumption can be kept under close control thanks to the availability of fully configurable Average and Maximum Demand functions, user-settable alarms and configurable tariff-band energy analysis.

Real-Time and Historical trend diagrams provide immediate understanding of how parameters changes during a settable time frame.

ENERGY EXPLORER provides also state-of-the-art analysis of dangerous and hidden phenomena such as Harmonics, Micro interruptions, Voltage Unbalance. The analysis of such phenomena is now a days an indispensable troubleshooting tool, helping to minimize downtimes and malfunctions of increasingly complex electrical systems.

APPLICATIONS

RMS METER: 3-PHASE rms measurements of all electrical parameters characterizing the load's supply and power consumption in instantaneous, Min/Max or Average value with configurable integration time and mode, as like Fixed time Integration mode, Sliding integration time frame & Synchronised time frame.

Scope: Real time displayed of the measured voltages and current waveforms

Harmo: fully IEC61000-4-7 complaint measurement of voltage and current harmonic up to the 31st order in bar graph and numerically, display option

Tariff Band Management: Allows the configuration of up to 4 Tariff bands with accounting of KWH, kVAh, cost and necessary reactive energy for PF correction.

Phase Vector Display: It provides a clear and immediate representation of the 3 phase systems voltages, currents and phase angles, as well as the systems unbalance.

Inrush/Startup current capture: Fully IEC61000-4-30 compliant capture and display of transient current events with pre-triggering functions. This functions provides fast and reliable analysis of the start up of motors/loads, connection of capacitor bank, etc.

Alarm Functions: Provides the possibility to set configurable alarm thresholds on any measured value for immediate display and logging of the alarm conditions. Additionally, it is equipped with 2 relay outputs that can be linked to any of the set alarms or configured to become pulse output.

RMS: surveys storing the rms value of all measured parameters with a settable frequency.

Waveform: Surveys storing the actual digital samples of voltages and current with settable frequencies. When analyzing such a survey on Pc. Not only the RMS values but also the actual waveforms of the signal will be available.

LOOK AT ITS PLUS POINTS

Current & Voltage Measurement: Energy Explorer Kit includes a set of 3 flexible current probes with 5A-1000A measuring range and 41 cm of length. Thanks to its special input circuit, Energy Explorer avoids the necessity of the usual external amplifier/integrator box for the flexible current probes. The elimination of the external circuit-box greatly improves the measurement accuracy, eliminates the short autonomy due to the amplifier's battery supply and enhances the natural ease-of-use of the flexible clamps.

For the voltage measurement Energy Explorer Kit includes a set of 6 measuring cables, color-coded and equipped with extractable crocodile clips.

Memory: Energy Explorer is already delivered with a massive 512Mb Compact Flash Card, allowing immediate use of Energy Explorer's survey capabilities.

PC Software: PE Studio, powerful and easy-to-use PC Software, specially designed for the complete analysis and reporting of all data recorded by Energy Explorer, is included with Energy Explorer Kit.

Power Supply: Energy Explorer Kit comes with a desktop power supply (for the supply of the instrument and recharge of the batteries) and a set of 10 rechargeable, heavy-duty NiMh batteries (AA type, overall capacity 230M Ah).

Transport & Protection: Special care was taken to ensure both high-protection and high-transportability for the Energy Explorer Kit. Energy Explorer is supplied with a shock- and water-proof IP67 plastic carrying case, resistant to corrosion and suitable for airplane transport. The above case is equipped with an internal, detachable soft-bag containing all the Energy Explorer Kit.

ENERGY EXPLORER KIT

- ENERGY EXPLORER PA
- Set of 3 flexible current probes 1000A
- Set of 6 voltage meas. leads crocodile clips
- Set of 6 crocodile clips
- Compact Flash 512MB
- Set of 10 rechargeable NiMh AA batteries
- Desktop power supply
- CD-Rom with PQ Studio PC Software Case + Integrated Soft-Bag
- Warranty certificate
- Calibration certificate
- User manual

**We reserve the rights to change product specification without prior notice.*

GENERAL SPECIFICATIONS

Voltage Inputs: 3 Voltage Inputs: double scale 500/1000 v accuracy 0.2% rdg. 0.005% fs

Voltage input rating: 600V/CAT III

Current Inputs: 3 Current Inputs for exchangeable flexible current transducers without external amplifiers (11000Arms) or CT clamps (1000A/1Vac or 3000A/1Vac); accuracy : $\pm 0.2\% \text{rdg} \pm 0.05\% \text{f.s.}$ (\pm clamp error) 1 Auxiliary/Neutral Input Channel for CT Clamps with 0-1V; accuracy: $\pm 0.2\% \text{rdg} \pm 0.05\% \text{f.s.}$ (\pm clamp error).

Fundamental Frequency Range: from 40 to 80 Hz. Harmonics / interharmonics up to 31st order.

Internal software: LINUX operative system software up-datable/up gradable by user via Internet.

Memory: Removable Compact Flash

Languages: English, Italian, French, Spanish, German.

Instrument/Dimensions: Self-Extinguishing ABS case with rubber-coated grips Alphanumerical rubber keyboard Dimensions (mm): 290x210x55

Display: 320x240 pixel, colour, graphic LCD screen (mm. 115,2x89,3)

POWER SUPPLY

- Mains : Desktop power supply
- Battery: 2 Independent battery Compartment, 5 rechargeable AA NiMh batteries each, 2300mAh

SIMILAR PRODUCT RANGE

- JUPITER PLUS - with all features of JUPITER and Web based communication software & Flicker Analyser
- JUPITER - Professional Power Quality Analyser for Transients, DIPS, Swells & Microinterruptions
- ENERGY EXPLORER- Professionals power & Harmonics Analyser with RMS meter, scope function, phase vector display & inrush current capture
- MICRO VIP 3 PLUS - for 3 phase unbalanced load with 189 instruments in one.
- NANO VIP PLUS - Hand Held power and Harmonic Analyser for balance load.

PRODUCT RANGE

- Online UPS
- HT & LT Industrial AVR
- Servo Stabiliser
- Ultra Isolation Transformer
- Automatic Power Factor Control Panel
- Maximum Demand Control Panel
- Special Control Panels

SERVICES

- Power Quality Management
- Energy Audit Study

CUSTOMER SUPPORT

Centrally located in Ahmedabad, the customer support division remains consistent in progressively adding to its well-deserved reputation, spurred by a scientific spirit, entire team of engineers & technicians involved in the maintenance operations, meticulously work to keep customer demands satisfied. Our commitment to the customer goes beyond executing the best possible equipment. To help assure the perfect match of product & application, we offer an extensive direct support at all levels.

