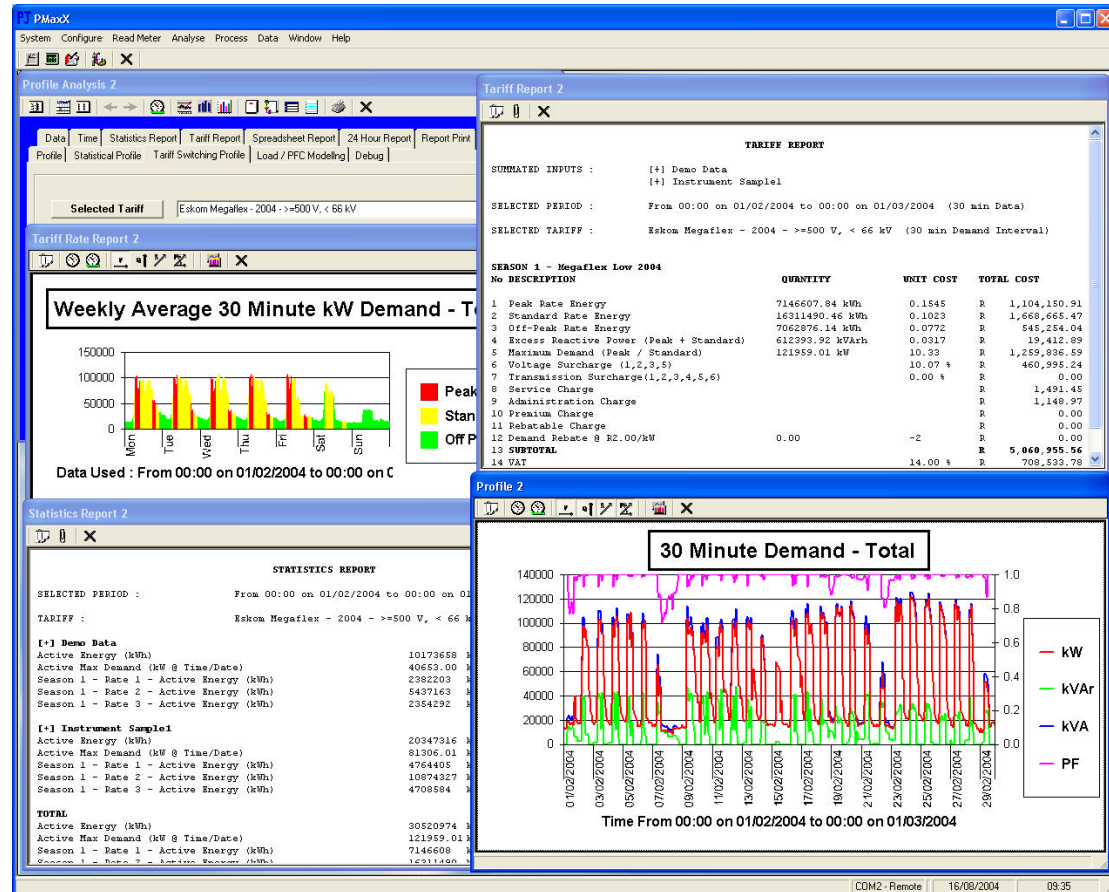# PMAX

THE METERING APPLICATION TOOL

PMAX, now in its 16th year of existence, with over 600 copies sold, provides a well proven solution to comprehensive metering and billing analysis.

Profile data available from modern electronic electricity meters or metering systems, is the source for analysis and reporting – profile graphs, multi-rate tariffs, statistical functions, and reporting functions are among those included in **PMAX**

Meter data can be read via Optical Head, RS 485 connection, remote TCP/IP, telephone, radio or cell-phone. Meters currently supported include the ENERMAX, ENERMAX PLUS, ELSTER 1200, ELSTER 1700, ELSTER 1440, ZMB, ZMC, ZMD, ZMG and ISKRA meters – Remote meter reading can be automated via automatic batch functions.

Data can also be directly imported from practically any meter or metering system.

As can be seen from the above screen, multiple functions can be simultaneously accessed.

PMAX is designed to be comprehensive, while remaining easy to use, and flexible. Profile data, profile graphs, statistical information, complex tariff based electricity bills and spreadsheet reports can be generated, printed or exported to other Windows programs with a few clicks of a mouse button.

PMAXX is being continuously enhanced to accommodate requests from the many users.

PMAX currently supports the following:

- **GENERAL FUNCTIONS**

  - Direct importing of profile data from MV90, Enermax, Email, DG20, DG300C, Fulcrum, MAP120, Indigo, Dino+ and ASCII files. Profile data is saved in a contiguous compressed format for size, security and access speed considerations.
  - Exporting of profile data in spreadsheet compatible files.
  - Scaling of profile data.
  - Adding and subtracting profile data in 2 or 4 quadrant mode.
  - Replacing of suspect or missing profile data using daily or weekly averages.
  - Editing of profile data with interactive graphic and spreadsheet views.
  - Graphic display of profile data – various line, bar and other graph types.
  - Graphic display of multiple profile data files, including total if required
  - Statistical graphic display of load duration and histogram curves.
  - Statistical graphic display of daily and weekly average profiles.
  - Graphic display of tariff rate periods on profile data
  - Graphic display of tariff rate periods on daily and weekly average profile data
  - User definable TOU tariff structure with up to 12 seasons, each with 8 rates. The structure can accommodate all Eskom, and most other tariff structures in Southern Africa.
  - Extremely flexible spreadsheet type setup of tariff structures.
  - Full detailed electricity bill, derived from profile data and user defined tariff structures.
  - Single day report, detailing profile data and maximums over a selected period.
  - Power Factor Correction modelling, Load modelling, Load Ratio, Load Shift modelling, Maximum Demand modelling – This can be applied before any profile analysis to determine economic savings via the tariff calculations.
  - User configurable reporting for energy, demand, load factor and contribution to maximum demand.
  - Spreadsheet type output for multiple profiles – including detailed tariff reporting.
  - Database and data verification, with backup functions.
  - Selected full colour combination data report for printing or exporting.
  - Saving of analysis setup definitions for re-use at a later stage.
  - Macro control of analysis functions to automate monthly reporting.
  - Automatic batch functions for remote meter reading, and output report generation – User initiated, daily, weekly and monthly options with settable starting times.

- **ENERMAX FUNCTIONS**

  - Full programming, including pre-defined tariff structures, meter reset and meter clearing functions.
  - Full retrieval of Profile, Billing, QOS and Program data.
  - Reverse reading of profile data for updating stored data.
  - Optical head, direct connection and remote connection via RS485 multi-drop, TCP/IP, telephone, radio or cell modem for all programming and retrieval functions.
  - Uploading of Enermax Program.
  - Printing of formatted display scrolling list, and program information.
  - Online view of instantaneous values with vector information for meter setup and connection verification.
  - Full interchange with DOS based EMAX software.
  - Formatted printing of billing registers.
  - Spreadsheet output of selected billing registers – parsing of data.
  - Interface with PSION hand held reader unit for meter reading and data transfer

- **ENERMAX PLUS FUNCTIONS**

  - Full retrieval of Profile Data and User Selected Billing registers.
  - Automatic partial reading of profile data for updating stored data.
  - Optical head, direct connection and remote connection via RS485 multi-drop, TCP/IP, telephone, radio or cell modem for all programming and retrieval functions.
  - Reading of all profile registers with output to Ascii text file.
  - Formatted printing of user selected billing registers.

- **L&G SIEMENS FUNCTIONS**

  - Full retrieval of Profile Data ZMB, ZMC, ZMD and ZMG (Programming via Siemens software).
  - Partial retrieval of profile data for updating stored data.
  - Retrieval of Billing Registers ZMB, ZMD and ZMG
  - Optical head, direct connection and remote connection via RS485 multi-drop, TCP/IP, telephone, radio or cell modem for all retrieval functions.
  - Formatted printing of billing registers.

- **ABB/ELSTER FUNCTIONS**

  - Full retrieval of Profile and Billing Data A1700 Vision.
  - Partial retrieval of profile data A1140 and A1700 Vision for updating stored data.
  - Retrieval of Billing Registers A1200, A1140 and A1700.
  - Optical head, direct connection and remote connection via RS485 multi-drop, TCP/IP, telephone, radio or cell modem for all retrieval functions.
  - Formatted printing of billing registers.

- **ISKRA FUNCTIONS**

  - Full retrieval of Profile Data (Programming via Iskra software).
  - Partial retrieval of profile data for updating stored data.
  - Retrieval of Programmed Billing Registers
  - Optical head, direct connection and remote connection via RS485 multi-drop, TCP/IP, telephone, radio or cell modem for all retrieval functions.
  - Formatted printing of billing registers.

PMAX is computer intensive, and the following is a minimum requirement
- Windows XP SP2, Windows Vista, Windows 7
- 1 GHz Processor
- 512 MB memory
- 400 MB Free Disk Space
- CD/DVD
- Colour printer
- 4 MB VGA card and 17 inch screen with a minimum of 1024 x 768 resolution.