ENERGY MONITORING & MANAGEMENT SOLUTIONS

Fastron Technologies Pty Ltd have more than 33 years experience in the control, switching, measurement and monitoring of electrical parameters.

We are Systems Engineers, Electrical, Electronic, Software and Project Engineers with more than 100 years of experience in Product Design, Telemetry, Data Acquisition, Building Management, Power Electronics, Process Control and Industrial Signage.

For the last 10 years Fastron have been active in the Energy Monitoring market importing and selling other manufacturers' software with our own local hardware. However, local requirements regularly demanded different functionality and communication requirements creating the need for custom solutions.

Therefore four years ago Fastron decided to develop its own range of Energy Monitoring Software and solutions from the ground up.

Fastron are now able to provide a wide range of Electricity Meters, Ring and Split Core CT's, Rogowski Coils, Sensors and Transducers and together with established design and manufacturing standards can provide rugged and reliable overall solutions.

Fastron can supply a wide range of different solutions from;-

- stand alone meters, CT's and transducers to
- a kit of hardware and software for others to integrate or
- a completely engineered hardware and software package for others to install and commission through to
- a full turnkey solution

ERGO Series, Energy Monitoring and Management Solution Software

The Ergo series comprises of the following software;-

Ergo Commander Plus
Data Recovery over Ethernet/WiFi, MODBUS TCP/RTU, SQLite and SQL server for reliable long term performance.

Ergo Commander Chart
Graphics Viewer with Live Dashboard and Alarms for Exception reporting and basic benchmark Costing.

Ergo Commander Chart Plus
The same as the Ergo Commander Chart but with additional selectable options such as Daily, Weekly, Monthly and Yearly reports. Bill Checking, Machine Performance such as kWh per Widget, Shift and Peak/Off-Peak Reporting.

This software can be sold stand alone or bundled with the hardware. It has also been designed as general purpose software for data acquisition, not solely for energy monitoring.

The meters that can be used are also not restricted to our Northern Design meters, we can accommodate any MODBUS RS 485 or TCP/IP meter, that may already exist.

In addition, we can interface with water and gas pulse outputs as well as MODBUS RS 485 communications and supply remote signage.
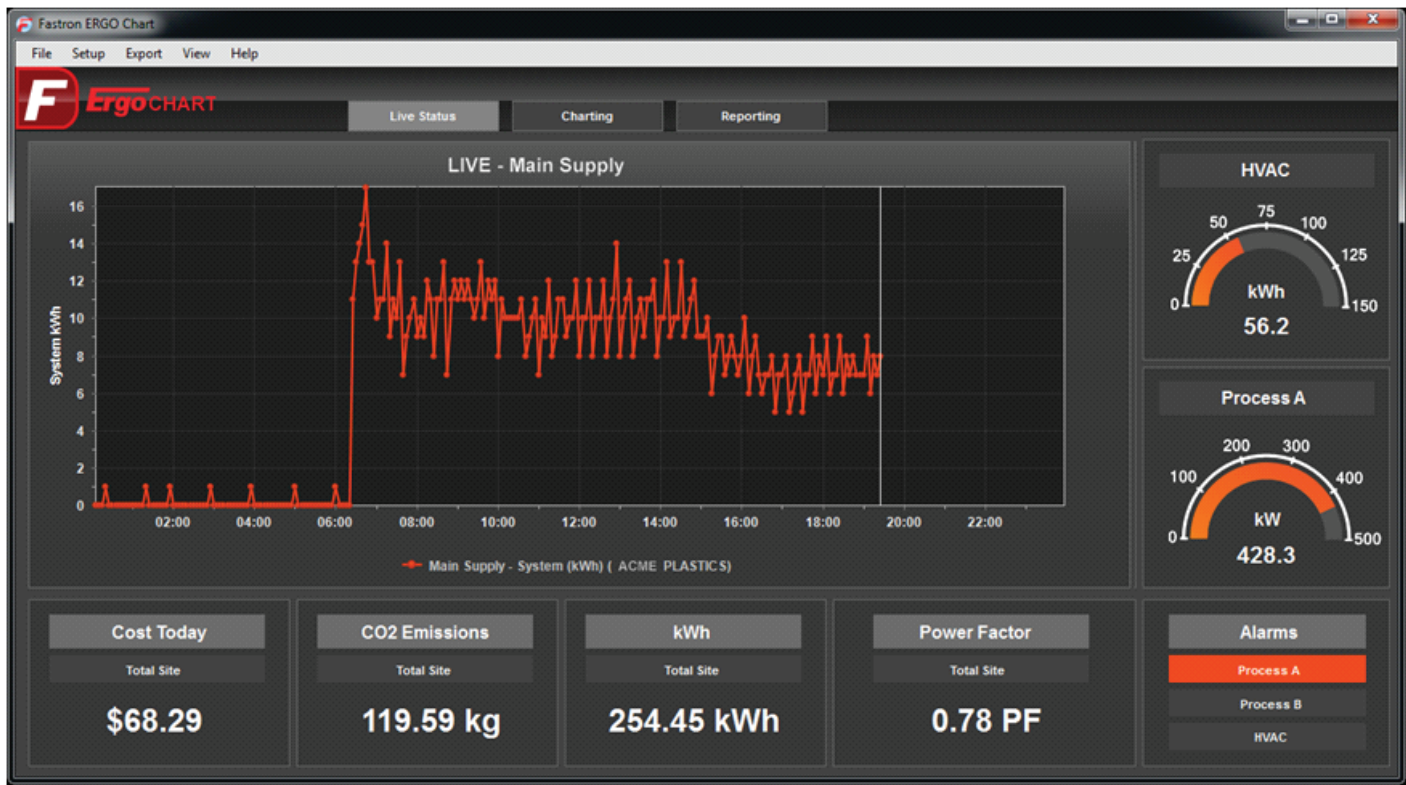
Even if your application is not fully covered by the functionality described please do not hesitate to contact us.

The Ergo Commander Plus is covered in the attached flier and the Ergo Commander Chart is described as follows.

ERGO Commander Chart

Live Dashboard

This Dashboard has been created as a live synopsis of selected information for regular viewing.
All selected parameters are fully programmable via the Setup tab.
The average $ rate per kWh is calculated from the utility bill and entered into the Setup page
The kg CO_2 per kWh is obtained from your utility company and also entered into the Setup page.

High and Low alarms are used for selected critical parameters. These alarms are set in the Setup page with the three main alarms shown on this Dashboard.
The "Alarms" pane will be orange, if other alarms not shown are active.

The alarms can be audibly silent and visually steady or flash/beep both visually/audibly until acknowledged by pressing any keyboard key to make the alarm visually steady with no audible alarm.

A daily alarm exception log is created for review. In this way, this may be the only log you need to view for normal day to day operations.

Historical Charting

This Charting package is for monitoring or comparing one or more parameters, below is the feature-list;

- Plot two units of measurement simultaneously
- compare multiple readings from multiple sites and/or locations
- selectable time-frames of Daily, Weekly, Monthly, Quarterly and Custom
- Export Chart as a PNG Graphic
- Export Chart as a CSV File
- Export a custom time-frame direct from the Dataset
- Print & Title specific charts for future reference

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