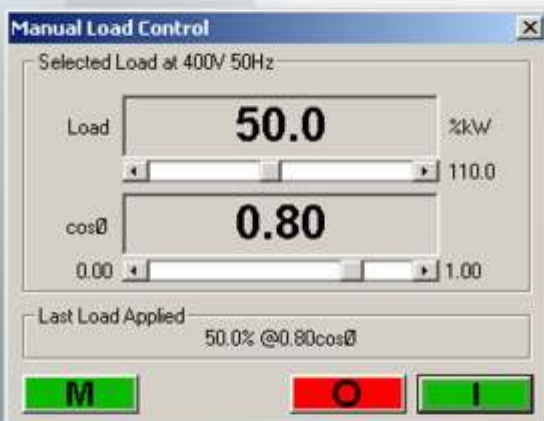


The Sigma PC Load Control is a Windows-based alternative to the Intelligent Hand Held terminal (IHT) on a Froment Sigma-equipped load bank. It provides enhanced load control along with transient-speed instrumentation, real-time graphs, full data acquisition and reporting.

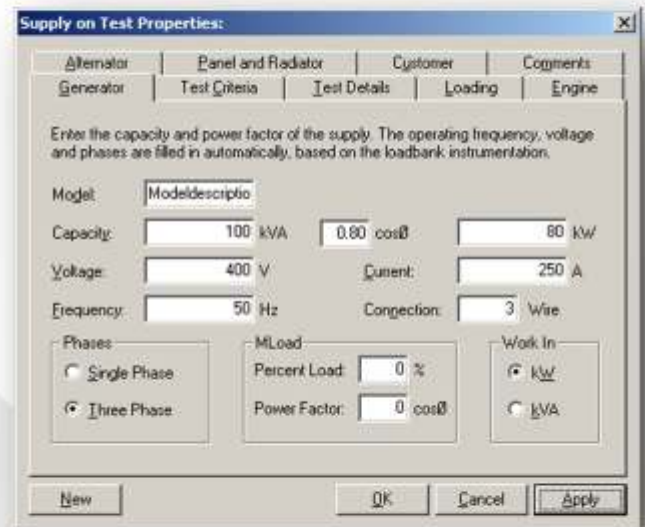
To run the Sigma PC System, an industry standard Pentium Laptop, Desktop or Rack Mounted PC is required with Microsoft Windows (NT 4, 2000 or XP). This can be supplied with the software fully installed and configured.

Load Control

- Select load by clicking and dragging the sliders on the Manual Load Control dialogue. To apply load, press the green button.



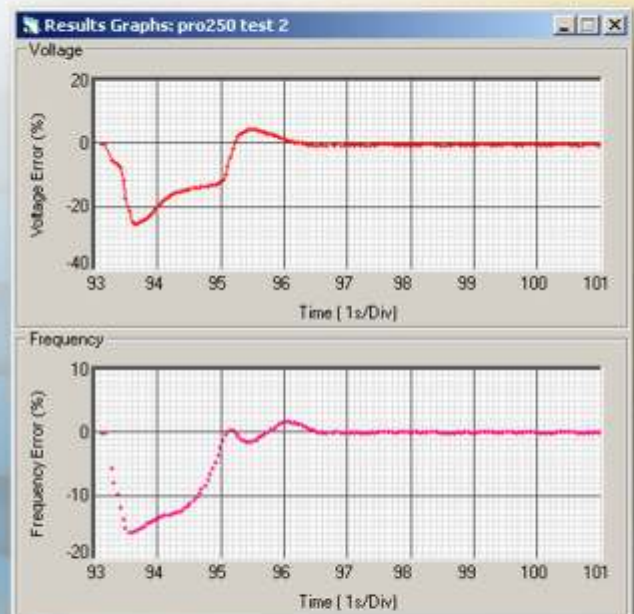
- Load can be expressed as a percentage of supply or actual load in kW or kVA and power factor.
- Supply properties include ratings, alternator, engine, customer and additional notes are saved on disk.
- Automatic load control gives the ability to run test programs. Test programs are created using the Test Program Editor.
- Test programs supports load ramping (load applied gradually over the time entered), delay instructions, looping and data capture control. The test program can be verified by single-stepping each command.
- Different load modes supported include kVA and Power Factor; Percent Power and Power factor; or Current and Power Factor.
- Adaptive and Predictive load-correction modes ensure the correct load is applied even if the voltage or frequency droops.
- Quick start wizard guides you through the setup for a manual or automatic test.



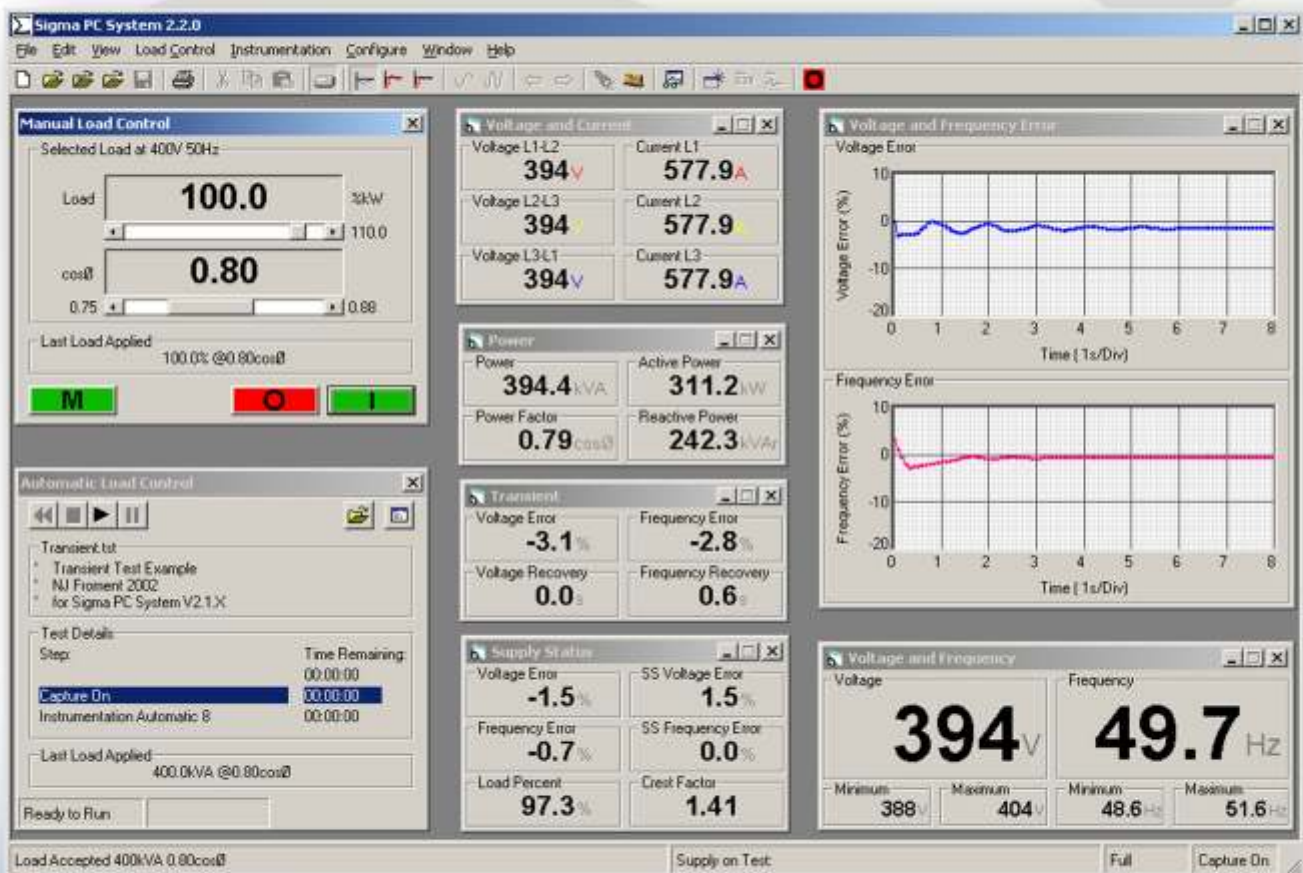
Instrumentation and Data Capture

All instrumentation measurements are made using high accuracy voltage and current transformers located within the load bank. This information is processed digitally, using high-speed sampling of the raw data; this provides full three-phase true rms measurements with high update rates.

- Transient data capture at 25 readings per second for voltage and frequency data.
- Real-time graphical displays of up to 1 second per division, with automatic trigger on load accept.



- Any combination and number of meters and graphs can be displayed on customisable 'front-panel' windows.
- Data capture can be controlled manually or automatically from a test program. The data is saved to disk along with the active supply details.
- Transient, Heat Run and Summary reports can be printed from results. Transient data is analysed to calculate voltage and frequency recovery times along with maximum deviations, according to ISO8528.
- Result data can be exported for analysis using other software packages.
- Print reports on your own company headed paper.
- 'Watches' can be set to monitor instrumentation values, stop test programs and drop the load if required.
- User-defined formulas for meter display, watches and reporting.



A typical layout showing windows customised with digital meters, real-time analogue graphs and control dialogs. A number of pre-customised screen layouts are included with the standard installation, which can be modified by the user.



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