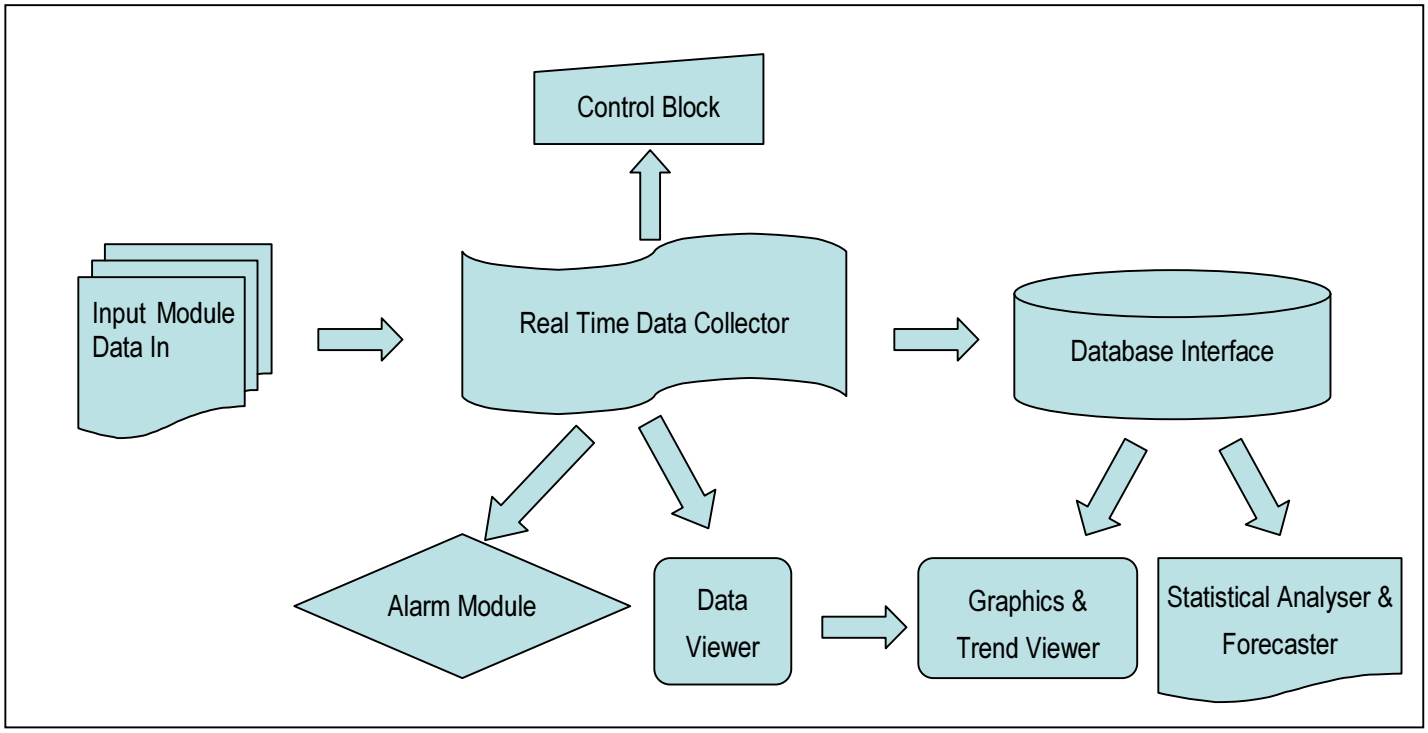
Pristine

Supervisory Control and Data Acquisition

We are engaged in designing and development of Supervisory Control And Data Acquisition (SCADA) software - Pristine.

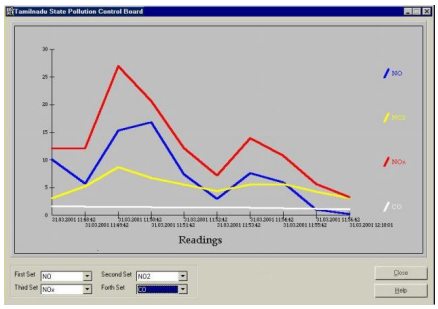
The complete SCADA software is modular. The basic functional diagram of the total system is shown in the figure bellow. These modules are to be dragged on the graphics editor, set the parameters and click 'Run'. The software will start by itself.

The modules can be described as



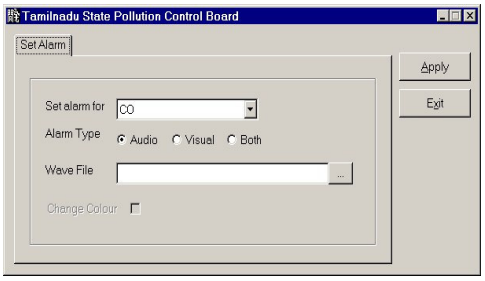
- **Input Module:** This module can be placed multiple times on the Graphics Editor. Each module can represent one instrument. The data can be picked up on any protocol. RS 232, RS 485, MOD BUS, PROFI Bus, I2C, LAN or any type of Modem. The pick up registers are other parameters can be programmed on the editor itself. The algorithm for reading intervals can be programmed.

- **Real Time Data Collector:** The module collects the data on the real time basis and it uses the algorithm to store or to generate Alarm and Controls.

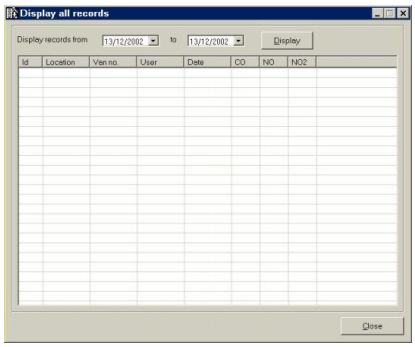


- **Data Base Interface:** The Data Base interface module stores the data in a data base. The data base is completely user specific. It can be Jet Engine Access, MSSQL, Oracle, PostGress etc.

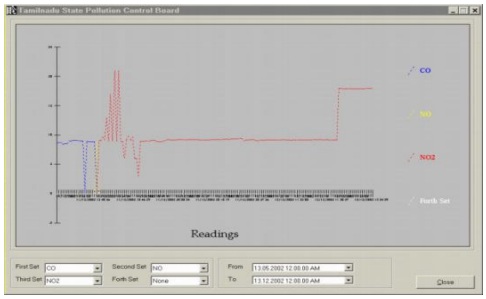
- **Alarm Module:** The Alarm module generates various alarms on the parameters. The mathematical compound calculation based alarms are also possible. The Alarms can be Audio, Visual. Also they can be user re-settable or auto re-settable.



- **Data Viewer:** The multiple windows data viewer is useful to view any real time data coming out of any instrument.



- **Graphics & Trend Viewer:** This is again a multiple window module which gives the graphical representation of various reading and their comparisons. Various types of coloured graphics can be plotted.



- **Statistical Analysis & Forecasting:** The module based on previous data and ratio can calculate, compute and forecast the various parameters.

- **Control Module:** Based on the parameter, or combination of parameters a control can be defines. This control can be activated by any PC port like IR, USB, Serial, LAN or specially designed I/O card.

- **Security:** There is a complete user level security. The layout files can be generated and used by the different access code users. Hence, using the same hardware, the various schema files can be generated based on the application.

- **Hardware Need:** Any Intel Pentium Based PC with 133 MHz or higher speed. Minimum 64 Mb of RAM, Minimum 100 Mb of Hard Disk space. Keyboard, Mouse and colour monitor with SVGA 1,024 X 768 64 colour capacity display.

- **Operating System:** The product is tested on following versions of Microsoft Windows Operating System Windows 95 SE, Windows 98, Windows ME, Windows NT work station Version 4.0 (Service Pack 6a), Windows 2000, Windows Xp.

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