

Connect V5
Data Acquisition System

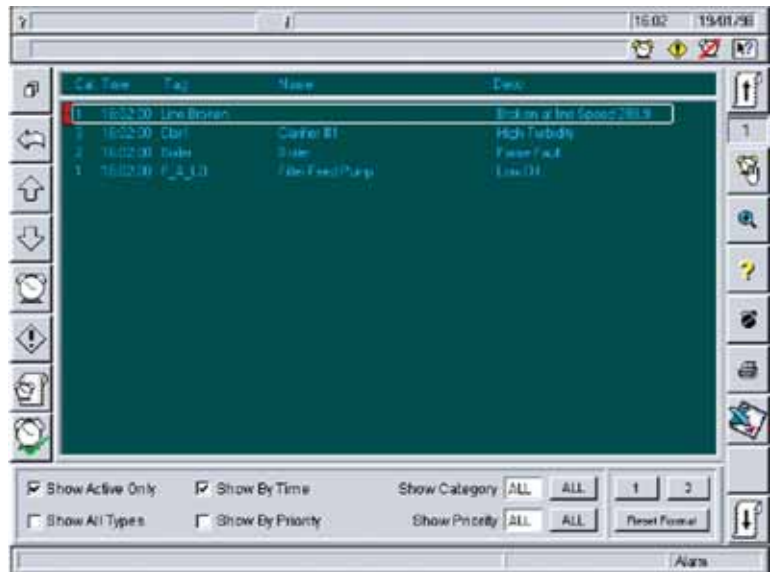
True Client Server Architecture

CONNECT is a real-time system that ensures performance response and integrity of data. CONNECT has five fundamental tasks, which handle communications with I/O devices, monitoring of alarm conditions, report type output, trending and user display. Flexibility is the power to arrange your system in a variety of ways. Rather than locking you into one method, CONNECT allows you to determine your own system architecture. CONNECT is divided into five separate tasks:

- I/O – Manages and optimises all communications
- Alarms – Monitors all alarm conditions: analog and digital
- Reports - Controls, schedules and executes report operations
- Trends - Collects, records, and manages trends
- Display – The Human Machine Interface (HMI) interacts with the other tasks to maintain the display – refreshing data and executing commands

Alarms

The CONNECT alarm system is fast and reliable, providing detailed information. All alarms are configurable reporting fault conditions in your plant. Alarms can be variables, calculation results, or a high temperature.



Working in conjunction with I/O devices, CONNECT's alarms can be time stamped and provide the ability to activate local alarms. The displayed information is user definable to ensure clarification of the alarm.

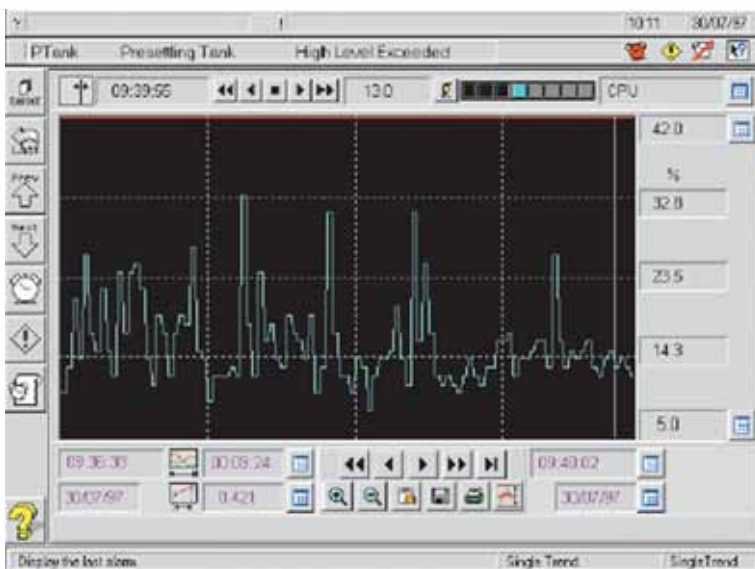
Interfacing

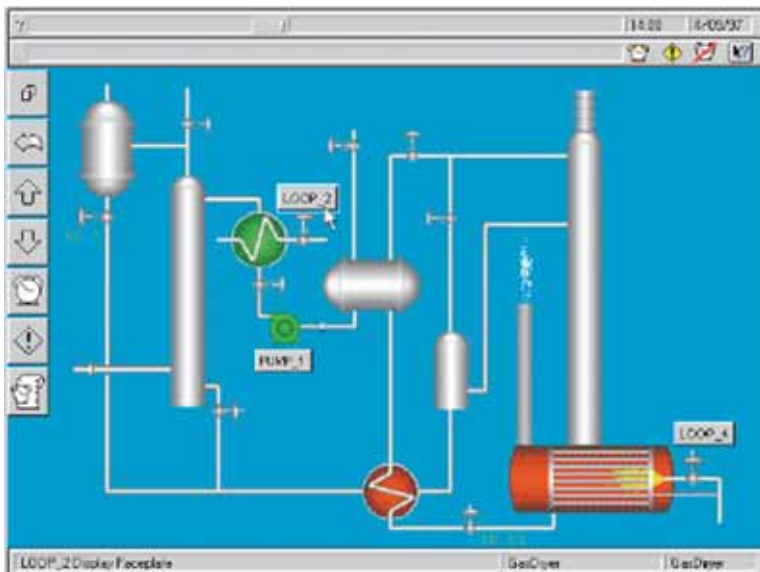
CONNECT comes complete with Profibus and Modbus drivers giving access to any number of I/O devices – PLC's, analysers, micro-controllers and scientific analysers. This means that your system can be constructed to suit your monitoring requirements and responsibilities.

Tyco Environmental Systems offers services that assist in interfacing all equipment into CONNECT providing a seamless network between instruments.

Remote I/O Device Monitoring

CONNECT can schedule connections to remote I/O devices such as analysers via modem. To minimise communication costs, CONNECT can dial up the device as per the user-defined schedule and automatically disconnect.





Internet Clients

CONNECT's Internet Clients provide functionality over the Internet. It is a powerful and easy way to access CONNECT from remote locations. This has significant applicability for mobile plants, remote monitoring and special users.

Reports

The Reports system is a fully integrated part of the product. A report can be generated periodically or on request. Reports can be generated in any format you require. They include formatted text, current and historical data and the results of calculations.

Genies

Devices that require configuration for NTP and velocity compensation, Filter Leak Discrimination and linearisation are programmed using this feature. Genies also allow you to program necessary variables into equations that enable calculations to be determined. Genies can be utilised repeatedly with only the calculation function, variables and tag being nominated the only requirements.

System Performance

One of the most critical aspects of any SCADA type system is getting the information from the monitoring devices quickly and reliably. A system where data transfer is slow because of bottlenecks runs the risk of losing information. CONNECT however, automatically uses dynamic optimisation and pre-emptive multi-tasking to maximise system performance.

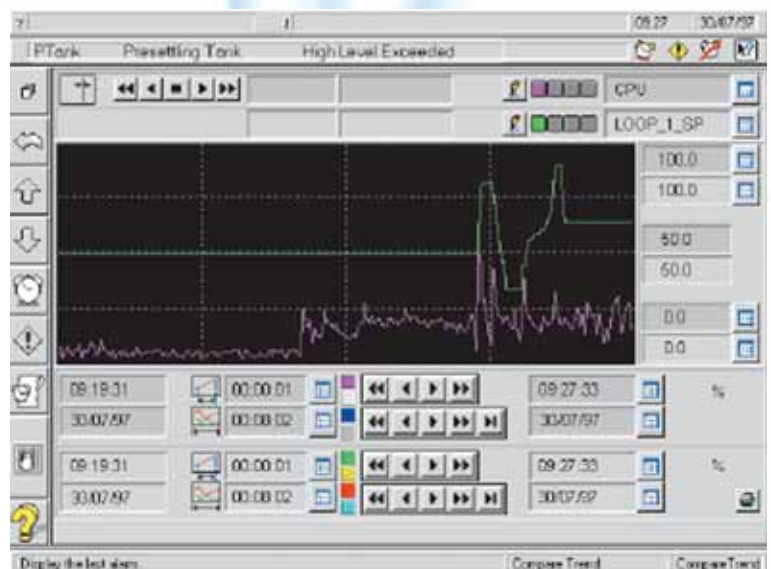
RAD Graphics

CONNECT uses rich symbol libraries, loaded with commonly used graphics – like ducting, stacks, bag-houses and precipitators. These graphics will instantly add consistency and functionality to your screens with the ability to replicate your plant processes.

Trends

CONNECT's distributed trending system handles large numbers of variables without compromising performance or data integrity. As the variables change overtime the graph moves across the page.

The resolution and span time of the graph can be changed while running. Press the statistics button to display Minimum, Maximum, Average and Standard Deviation for any selected portion of the trend. Each Trend graph can display multiple trends with the ability to overlay multiple trend graphs. Data can be copied and pasted on clipboard ready to paste in a report format in any third party application such as Excel and Word.





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