



Autoclave TowerView™

Data Acquisition and Control Software Package developed for Autoclave Engineers' CT 3000 Control Tower Series

- Remote monitoring of all process variables (temperature, over-temperature, pressure, and speed)
- Manipulate system setpoints, alarm limits, PID tuning parameters, and other pertinent parameters
- Real-time trend of all process variables
- Data storage and report generation of all process variables
- Password protected access levels from monitor to full access
- Control up to 4 Autoclave Engineers' CT 3000 Control Towers simultaneously



Remote monitoring of all process variables is available via 2 way serial communication through serial port 1 of your computer. The RS-232 cable runs through a converter in order to talk to the RS-485 network of CT 3000 controllers. All data displays are real-time to show the most up to date real world data.

Manipulate system setpoints, alarm limits, PID tuning parameters, and other pertinent parameters through the virtual controllers that emulate the corresponding controllers in the field. With the appropriate access level, the operator can configure a controller as if they were standing at the actual controller interface.

A **Real-time trend of all process variables** is supplied on the right half of the main overview screen. The operator can view any of the enabled towers and corresponding real-time trends by selecting the appropriate tower in the tower panel in the lower left portion of the main overview. Each real-time trend has individual data and time scales along with many other alterable properties. The operator is also capable of zooming and/or printing the trend at any time. The time length of the real-time trend defaults to 2 hours but may be configured for up to 24 hours.

Data storage and report generation, of all process variables, are two other features. The process variables from each controller are constantly logged at regular 5-second intervals. A new data log file is created every day and stored in a local directory. These data log files are stored in '.csv' format which makes them viewable from any spreadsheet program, such as Microsoft Excel.* The report generator software is capable of retrieving data from these files based on an operator selected start date, start time, duration, and interval. The operator also has the option to obtain a report based on a run number that retrieves data only pertinent to that corresponding run number. Alarms and significant events are also logged to file.

Password protected access levels provide operation and configuration security for the system. There are 3 access levels: Monitor, Operator, and Administrator. The monitor level can only read data from the virtual controllers. The operator level has read and limited write capabilities. The administrator level has full access capabilities.

Control up to 4 Autoclave Engineers' CT 3000 Control Towers simultaneously from one screen.

Configuration Options:

- Enable/disable towers and/or controllers
- Change names of towers and controllers
- Determine time length of real-time trends
- Determine how long data files archived

System Requirements:

- Windows 9x or NT*
- Pentium II Processor (or better)**
- Monitor/Video Card capable of 1024 x 768 resolution

*Microsoft, Excel and Windows are registered trademarks of Microsoft Corporation, Redmond WA.

**Pentium is a registered trademark of Intel Corp., Santa Clara CA.

Part number table for Towerview

P/N	Software & manual included?	Number of CT 3000 that can be connected with the cables in the kit	Kit includes cable and converter to connect the PC to the first CT 3000?	Cable Lengths
ATV-MONITOR	Yes	0	No	N/A
ATV-CONTROL	Yes	0	No	N/A
ATV-CONTROL1	Yes	1	Yes	approx. 10 ft.
ATV-CONTROL2	Yes	2	Yes	See Note
ATV-CONTROL3	Yes	3	Yes	See Note
ATV-CONTROL4	Yes	4	Yes	See Note
RS232COM1KIT	No	1	Yes	approx. 10 ft.
RS232COM2KIT	No	2	Yes	See Note
RS232COM3KIT	No	3	Yes	See Note
RS232COM4KIT	No	4	Yes	See Note
RS232EXPKIT	No	1	No	approx. 25 ft.

Note: The cable that connects the PC to the first CT 3000 Control Tower is approximately 10 feet long. The cable that connects to subsequent CT 3000 units is 25 feet long. The cables are arranged in a "daisy-chain" configuration. The combined length of all cables (including any extension cables added) should not exceed 4000 feet.



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