



Unit	Recipe Status			Control Status				Recipe Times				
	Control Loop Name	Status	View Alarm	Current Recipe	Car Key	Request	Process Variable	Setpoint	Units	Estimated Completion Time	Recipe Start Time	Time Left in Process (Clock)
Controller 1	Control Loop 1	Run	OK	Demo Recipe	2	25.0	10.0	-15.0	C	Wed 05 Apr 01:14 PM	Wed 05 Apr 01:43 PM	04:25:42
	Control Loop 2	Run	OK	Demo Recipe	2	25.0	20.0	-5.0	C			
	Control Loop 3	Run	OK	Demo Recipe	2	25.0	10.0	-15.0	C			
Controller 2	Control Loop 1	Run	OK	Demo Recipe	2	25.0	10.0	-15.0	C	Wed 05 Apr 01:14 PM	Wed 05 Apr 01:43 PM	04:25:50
	Control Loop 2	Run	OK	Demo Recipe	2	25.0	20.0	-5.0	C			
	Control Loop 3	Run	OK	Demo Recipe	2	25.0	30.0	5.0	C			
Controller 3	Control Loop 1	Run	OK	Demo Recipe	50	0.0	10.0	10.0	C	Wed 05 Apr 01:44 PM	Wed 05 Apr 01:44 PM	00:00:00
	Control Loop 2	Run	OK	Demo Recipe	50	0.0	20.0	20.0	C			
	Control Loop 3	Run	OK	Demo Recipe	50	0.0	30.0	30.0	C			
Controller 4	Control Loop 1	Hold	OK	unknown	1	0.0	10.0	10.0	C	unknown	unknown	00:00:00
	Control Loop 2	Hold	OK	unknown	1	0.0	20.0	20.0	C			
	Control Loop 3	Hold	OK	unknown	1	0.0	10.0	10.0	C			
Controller 5	Control Loop 1	Run	OK	Demo Recipe	2	25.0	10.0	-15.0	C	Wed 05 Apr 01:14 PM	Wed 05 Apr 01:44 PM	04:26:04
	Control Loop 2	Run	OK	Demo Recipe	2	25.0	20.0	-5.0	C			
	Control Loop 3	Run	OK	Demo Recipe	2	25.0	30.0	5.0	C			
Controller 6	Control Loop 1	Hold	OK	unknown	1	0.0	10.0	10.0	C	unknown	unknown	00:00:00
	Control Loop 2	Hold	OK	unknown	1	0.0	20.0	20.0	C			
	Control Loop 3	Hold	OK	unknown	1	0.0	30.0	30.0	C			
Controller 7	Control Loop 1	Run	OK	Demo Recipe	2	25.0	10.0	-15.0	C			
	Control Loop 2	Run	OK	Demo Recipe	2	25.0	20.0	-5.0	C			
	Control Loop 3	Run	OK	Demo Recipe	2	25.0	30.0	5.0	C			
Controller 8	Control Loop 1	Hold	OK	unknown	1	0.0	10.0	10.0	C	unknown	unknown	00:00:00
	Control Loop 2	Hold	OK	unknown	1	0.0	20.0	20.0	C			
	Control Loop 3	Hold	OK	unknown	1	0.0	30.0	30.0	C			

Overview Screen

Overview

SUPERVIEW for the 3400 series of controllers from MDE, Inc. is a Windows based software package that provides users with a wealth of configuration, data gathering and analysis tools. **SUPERVIEW** is a setup tool and real-time user interface all in one.

With **SUPERVIEW**, users can configure, monitor, log and maintain critical processes for 1 or many networked MDE3400 controllers via a high-speed Ethernet TCP/IP network or a 422/485/232 serial network.

SUPERVIEW provides for setting up of all networked controllers via its familiar spreadsheet displays. The user can setup critical parameters, build recipes and view them graphically. Then at process runtime, the user can monitor and adjust all parameters, log and graph data in real-time.

SUPERVIEW'S advanced functions also provide support for the automation of the process.

With **SUPERVIEW'S** Security and Access feature, any screen can be hidden or made read-only so that operators see and adjust only data parameters that are pertinent to process operation.

SUPERVIEW has a built-in web-server so that any user connected to the **SUPERVIEW** PC Ethernet network can view and optionally change parameters remotely.

SUPERVIEW: Software for 3400 Series

Features and Benefits

Intuitive and easy screen navigation

- Tabbed screens show all your choices without having to "drill down"
- Familiar spreadsheet style screens are instantly usable by all

Setup, monitor and calibrate on or many controllers simultaneously

- See entire factory floor data at a glance in real-time
- Clone configurations from one controller to another easily
- Centralized management of recipes minimizes version headaches
- Document calibration to help keep instrumentation up-to-date

Access to all controller setup and runtime parameters

- Save and restore complete controller setup reliably
- Save and restore entire network of controllers easily
- View complete setup in Excel spreadsheets

Log and graph any process parameter in real-time

- Document exactly what happens during the process
- View archived data as graph or text providing for complete process optimization

Graphical Ramp/Soak Recipes

- Instant feedback when creating recipes eliminates mistakes
- Document recipes easily for you or your customers
- At run-time, compare your results to the recipe on a single graph in real-time

Alarm administration

- Immediate on-screen alarm notifications for all networked controllers
- All alarms logged in real-time for quick diagnosis of problems
- Sort all alarms by controller, time or type

Event administration

- Event log records all operator activity in real-time for problem diagnosis
- Time and date of system activity documents what happened and when

Network multiple PCs running SUPERVIEW

- View and/or change controller real-time data remotely
- **SUPERVIEW** on your corporate network keeps you in touch with the factory floor with real-time data

Multiple Security and password levels

- Hiding selected screens based on security levels keeps the process setup secure
- Show operators only the parameters they require
- Customize presentation for each user

SUPERVIEW Features



Data Logging Graphs

Setup/Configuration

- Easy plug and play setup and configuration.
- **NO** configuration files to build or setup screens to figure out.
- **NO** drivers to load and install.
- **NO** screens to build.
- One screen does provides all the setup you'll need. Just wire up the controllers, select which COM port the controllers are connected to and press the "Find Controllers" button and **SUPERVIEW** handles the rest.

Customization/Productivity Enhancements

- Assign your own tag names to controllers and their parameters.
- Show only the data you want. One-click can hide non-essential data values.
- Up to 5 Customizable Data Log entries:
 - 1) These values can be entered by operator when starting a recipe or log.
 - 2) Useful for such things as: Serial Numbers, Job Numbers, Test Descriptions, Operator Name, etc.
 - 3) These operator entered values will appear in data log files and are displayed on the Log Archive screen.

Data Acquisition/Logging/Trending

- Configurable Data Logger for each Controller in the system.
- Configurable Strip Chart Recorder graphics for each Data Logger/Controller.
- Log any parameter, including Alarms, in the system to file at a selectable rate.
- View logged data as simple text table or as a graph.
- Single click opens data file in Excel.
- Log Archive feature keeps track of all previous data logs.
- Pull up a data log file from last week or last year and show it graphically, as text table or in Excel.
- Sort all your data log files by name, date, controller or recipe name.

Control Loops

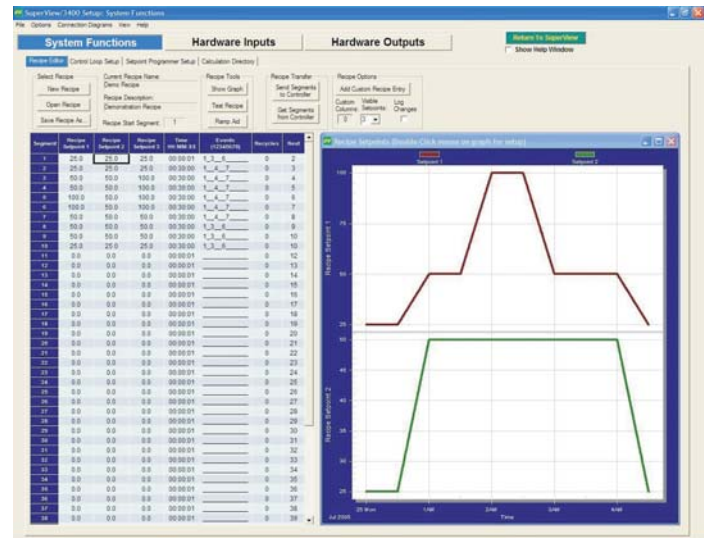
- Monitor and change all control loop data for any controllers on a single screen.
- Single click brings up Detailed View for loop tuning etc.
- High and Low Alarms are indicated by color. Easy to see at a glance.
- Alarm Icon viewable from any screen when an alarm is active.

Recipe Editor

- Build a recipe easily with spreadsheet like editor.
- Upload existing recipes from a Controller with a single button click.
- Save all your recipes in one spot rather than using many Command Cartridges for recipe storage.
- Editor shows the Recipe graphically while you build it.
- View any recipe graphically to validate its operation.
- Recipe Directory allows operators to select a recipe and start it with a single click.
- Cut/Paste/Delete via mouse or keyboard makes editing recipes a snap.

Graphics

- View Recipes graphically.
- Configurable Strip Chart Recorder graphics for each Data Logger.
- View Recipe Setpoint ramps and soaks along with the Process.
- Variable in real-time on a single graph.
- View running Recipe graphs and Strip chart graphs for each controller on a single screen.
- Resize the graphs to full screen or smaller and combine with text data for complete view of your entire system.



Custom Recipe Editor

SUPERVIEW Features

Event Log

- Keeps track of all system and operator activity in a single location.
- Spreadsheet formatted log keeps track of all operator changes:
 - 1) Records operator parameters changes to any controller.
 - 2) Records time/date and type of alarms, and alarm acknowledgments.
 - 3) Records when Recipes were started and when they completed.
 - 4) Records when status changes of control loops and setpoint programmers.
 - 5) Records when the Data Logger was started and when it completed.
- Go back in time and view event log to see what occurred and when.
- Easy to diagnose system problems.
All entries saved in a file for easy retrieval.
Sort all entries by controller, entry type, alarm, or date/time with a single click.

Controller	Input Name	Module	Comments	Process Variable Unit	Output Signal Unit	Input	Out of Range	Alarm	State	
Controller 1	Frequency Input 1	AI	Controlled	F3 Jan 5	Frequency_Input	0	0	100.00	0.00	
	Frequency Input 2	AI	Controlled	F3 Jan 6	Frequency_Input	0	0	100.00	0.00	
Controller 2	Temperature Input 1	AI	Controlled	F3 Jan 5	TempHigh_Output	Control Loop 3 Reverse Output	0	0	100.00	0.00
	Temperature Input 2	AI	Controlled	F3 Jan 6	TempHigh_Output	Control Loop 4 Reverse Output	0	0	100.00	0.00
Controller 3	Digital Input 1	DI	Controlled	F3 Jan 5	Digital_Output	Control Loop 1-4 Dev Alarm	0	0	100.00	0.00
	Digital Input 2	DI	Controlled	F3 Jan 6	Digital_Output	Control Loop 2-4 Dev Alarm	0	0	100.00	0.00
Controller 4	Digital Input 1	DI	Controlled	F3 Jan 5	Digital_Output	Programmer 1 Event 1	0	0	100.00	0.00
	Digital Input 2	DI	Controlled	F3 Jan 6	Digital_Output	Programmer 1 Event 2	0	0	100.00	0.00

Flexible I/O

SuperView Specifications:

Hardware Required:

- Pentium 300MHz or greater with a minimum of 2256 MB of RAM
- Hard drive with 20M of free space (500MB recommended for logging and trending)
- CD-ROM drive
- SVGA display (640 x 480 resolution, 16-bit color)
- Microsoft - compatible pointing device (mouse or trackball)

Software Required:

- Windows 98, NT 4.0, ME, 2000 or XP

Number	Calculation Name	Calculation Type	Calculation Description
1	Unused	Calculation 1	Enter your Description here.
2	Unused	Calculation 2	Enter your Description here.
3	Unused	Calculation 3	Enter your Description here.
4	UNUSED	Average 4 Inputs	Average Inputs 1,2,3,4 for Loop 1 PV
5	Unused	Calculation 5	Enter your Description here.
6	Unused	Calculation 6	Enter your Description here.
7	Unused	Calculation 7	Enter your Description here.
8	Unused	Calculation 8	Enter your Description here.
9	Unused	Calculation 9	Enter your Description here.
10	Unused	Calculation 10	Enter your Description here.
11	Unused	Calculation 11	Enter your Description here.
12	Unused	Calculation 12	Enter your Description here.
13	Unused	Calculation 13	Enter your Description here.
14	Unused	Calculation 14	Enter your Description here.
15	Unused	Calculation 15	Enter your Description here.
16	Unused	Calculation 16	Enter your Description here.
17	Unused	Calculation 17	Enter your Description here.
18	Unused	Calculation 18	Enter your Description here.
19	Unused	Calculation 19	Enter your Description here.
20	Unused	Calculation 20	Enter your Description here.
21	Unused	Calculation 21	Enter your Description here.
22	Unused	Calculation 22	Enter your Description here.
23	Unused	Calculation 23	Enter your Description here.
24	Unused	Calculation 24	Enter your Description here.
25	Unused	Calculation 25	Enter your Description here.
26	Unused	Calculation 26	Enter your Description here.
27	Unused	Calculation 27	Enter your Description here.
28	Unused	Calculation 28	Enter your Description here.
29	Unused	Calculation 29	Enter your Description here.
30	Unused	Calculation 30	Enter your Description here.

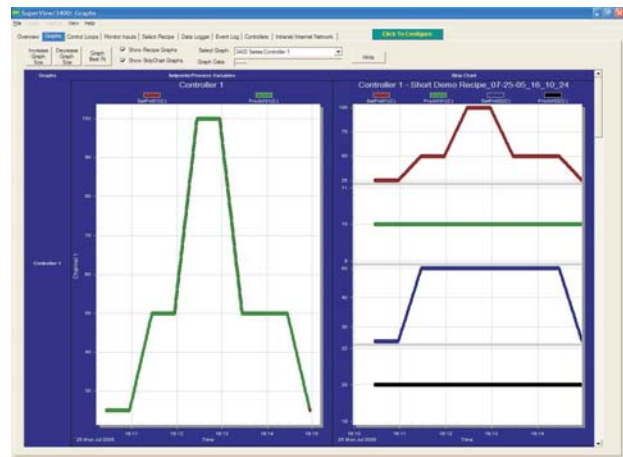
Simple Configuration

Alarms

- Set all controller high/low process variable and deviation alarms on a single screen.
- Alarm icon appears when any parameter in system causes an alarm.
- Simple click on the Alarm Icon navigates directly to the alarm and its cause.

Communications

- **SUPERVIEW** shows all communication alarms and information about each controller.
- Select a COM port(s) and press a single button to build your entire network of controllers.



Real Time Graphs