CN3200-SOFT-WIN

For use with Omega CN3251 and CN2120

November 11, 2005

DISCLAIMER

SpecView software communicates with industrial instrumentation and it displays and stores the information it receives. It is always possible that the data being displayed, stored or adjusted is not as expected. ERRORS IN THE DATABASE OR ELSEWHERE MEAN THAT YOU COULD BE READING OR ADJUSTING SOMETHING OTHER THAN YOU EXPECT!

Safety devices must ALWAYS be used so that safe operation of equipment is assured even if incorrect data is read by or sent from SpecView.

SpecView itself MUST NOT BE USED IN ANY WAY AS A SAFETY DEVICE!

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Table of Contents

CN2120 Connections and Wiring

For full details on connecting the controller to the PC please refer to the controller instruction manual.

An RS232 to RS485 converter is required. The recommended part is B&B Electronics 485SD9TB (http://www.bb-elec.com/)

This converter is powered by the RS232 port on the computer and only two wires are required to connect to the controller.

TX(A) connects to controller terminal 22

TX(B) connects to controller terminal 21

***** Instrument Settings *****

Menu: Gr. 7 - Sr.Ln

S.L.Pr = J-Bus

S.L.Ad = 1

S.L.bd = 19.2

S.L.bF = 8

CN2120 Installation

NOTE: This program requires the display to be set to 1024x768 resolution

It is recommended that the software be allowed to install in the default SV32 folder. All Log Reports will go into the CN3251_1024x768 sub-folder under SV32.

Insert the CD.

If the installation program does not start automatically Dbl-Clk the My Computer icon on the desktop and click on the CD Drive.

Dbl-Clk on the Setup application icon in the CD folder.

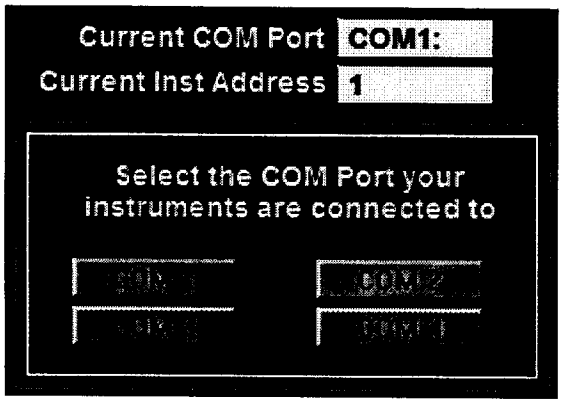
Follow the on-screen installation instructions.

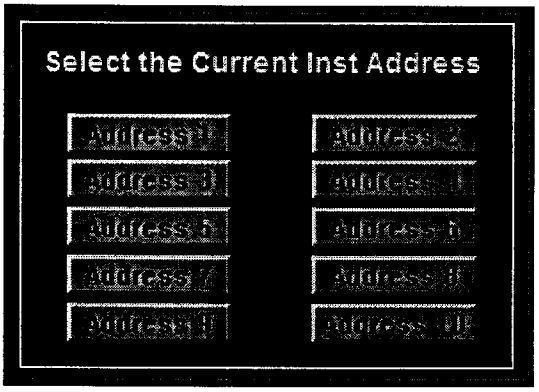
CN2120 Getting Started

Start the program by Double-Clicking the  icon on the desktop.

The program will automatically go to the Communications Setup Screen

The Current COM Port and Instrument adress is shown:





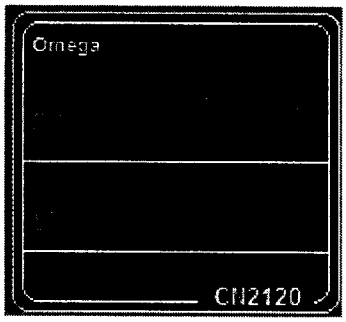
If you are using a different COM port or Address click the appropriate button.

After changing the COM Port or Address Exit the program and restart.

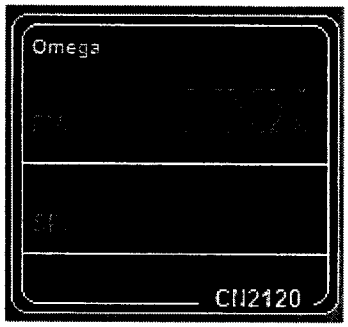
Test your connection by clicking the  button.

If you have successful communications you will see numbers in the instrument picture:

Good Communications



Bad Communications



If the display shows XXX please check your wiring and controller settings

CN2120 Log Report Screen

The log report screen shows the current Process Value and Working Setpoint as numeric values and as "Pens" on a trend chart.

To change the properties of the chart such as pen scales, colors and time span see Trend Chart

Log Reports

The program is recording the value of Process Value and Active Setpoint every minute.

The user can create a Log Report from this stored data.

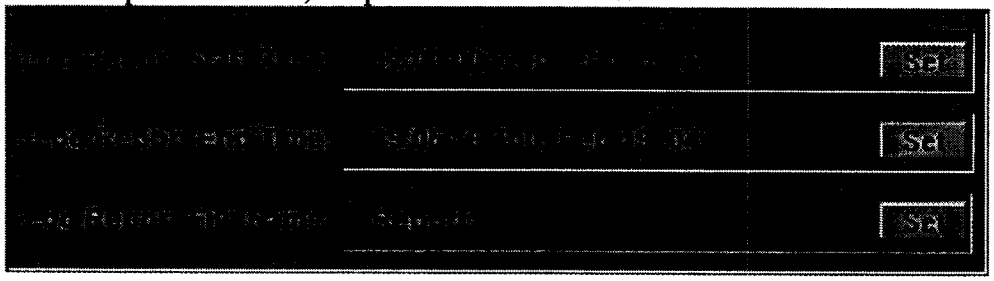
The report is a CSV (Comma Separated Variable) text file.

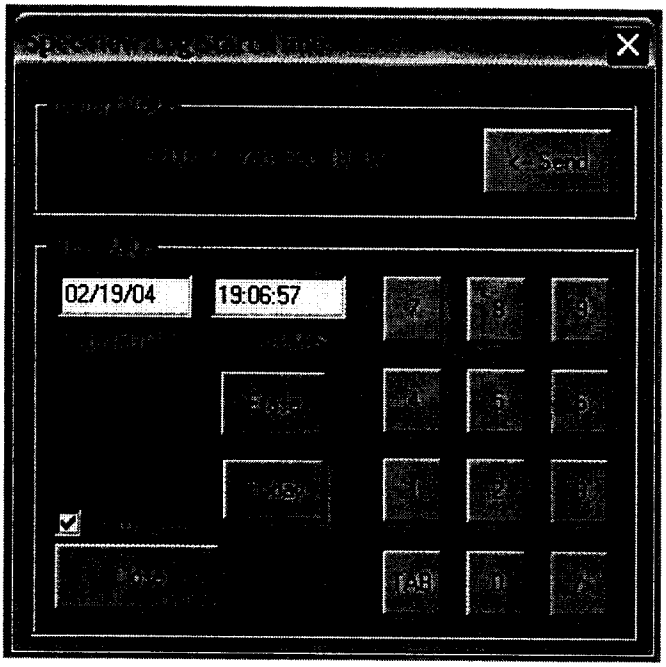
The file will be stored in the CN2120_1024x768 sub-folder under the main SV32 folder

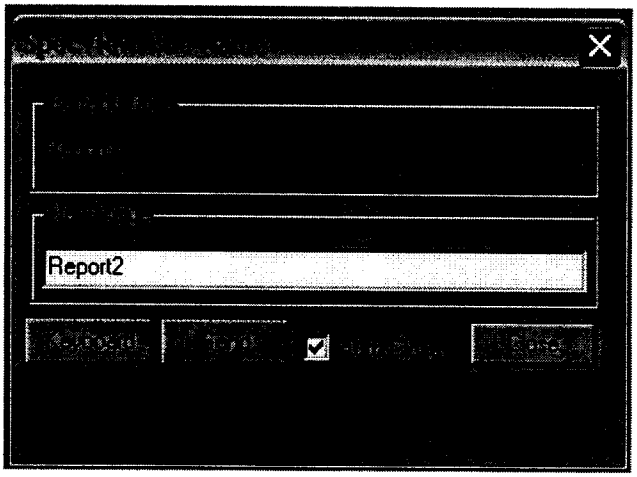
The file name will be the name entered on the screen. Default is "Report1.csv"

Creating a Log Report

Set the report start time, stop time and file name:







Click "Send" to enter the data.

When the Start time, Stop time and Report name has been entered click

The file will be created.

CAUTION: If the file name is left unchanged it will overwrite any previous file!

CN2120 Trend Chart Screen

The trend chart screen gives a full screen chart of controller parameters. The chart is suitable for printing.

To print the chart, click the "Print This Scren" button.

NOTE: The screen will print to the Default Printer.

For best results edit the Properties of the default printer and select Landscape mode.

To print the chart automatically, click the  check box. The chart will print each time it fills with new data.

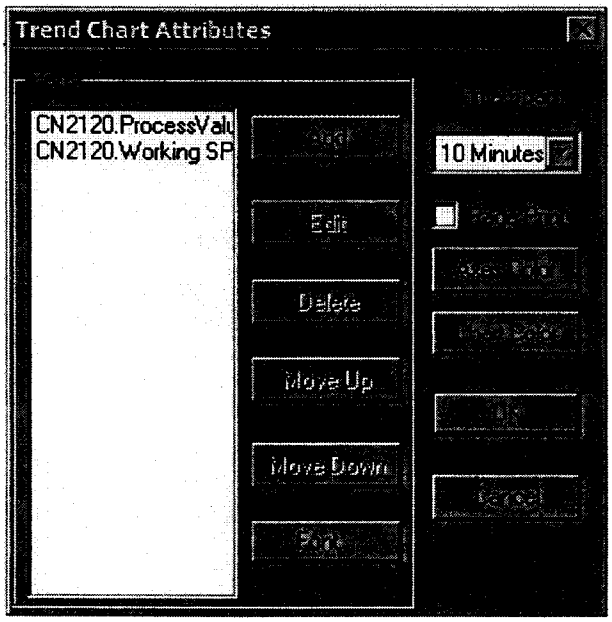
Be sure that there is a printer connected and that it is on-line!

Modifying the chart Setup

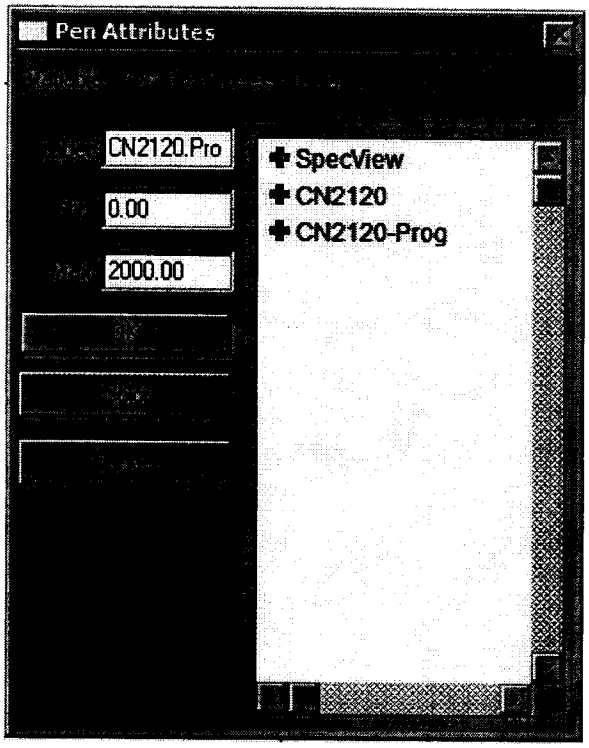
To change the chart setup click the [Setup] label at the top right of the chart.

To modify the trend chart setup click the [Setup] label at the top right corner fo the chart.

This box sets up the time span and appearance of the chart



This box selects the parameters to graph and the pen scaling and color



CN2120 Profile Control Screen

The Profile Control screen allows monitoring and control of the current program.

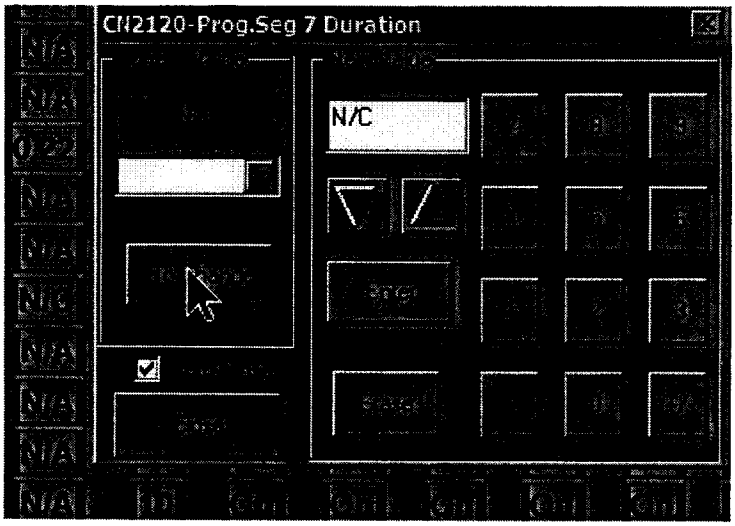
Note: The Profile Control MUST be in the Edit mode before a program may be changed.

CN2120 Profile Setup Screens

If the profile is not using event outputs click either the Timed Ramp or Gradient Ramp buttons, depending on the Ramp Time selection on the Instrument Setup screen.

If events are being used choose one of the other three buttons.

Note: On the event screens the second or third column will display N/A for most values depending on the Timed Gradient selection. If the Recipe Manager is used any value that is displaying N/A should be changed to No Change.



If left at N/A download write errors will occur.

The Profile Setup Screen allows the user to enter and save values for Ramp/Soak profiles

To edit the values a a profile in real time click on each parameter and enter a new value.

To save a profile click the  button.

The Recipe Manager box appears. Clcik "Save As" and enter a name for the profile:

Click Exit when saved.

To recall a saved profile click the  button and select the name in the list.

The values on the screen will change to the stored values.

Review the profile and make any changes required.

When the values are correct click "Send". The values will be sent to the controller.

CN2120 Instrument Setup Screen

CAUTION: Use care when making changes to the settings on this screen.

Refer to the controller manual before making any changes!

Incorrect settings can cause severe disruption to the normal performance of the controller.

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The communications parameters of the instrument should be set to:

Communications switch set for RS485 (SW1=UP, SW2=DOWN)

CPIF protocol

2-Wire, Half Duplex

8 data bits, 1 stop bit, no parity

9600 baud rate

Installation

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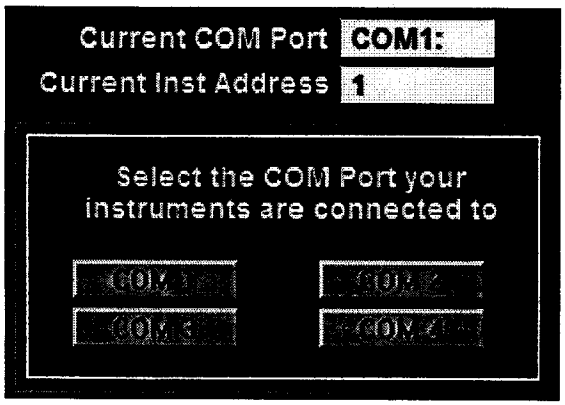

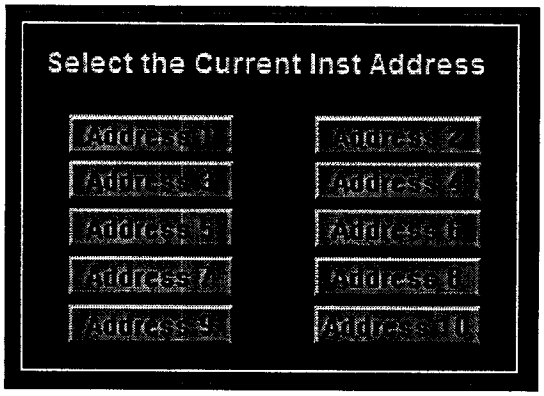

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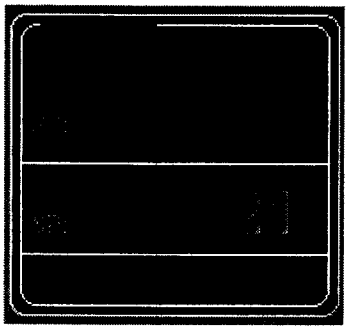

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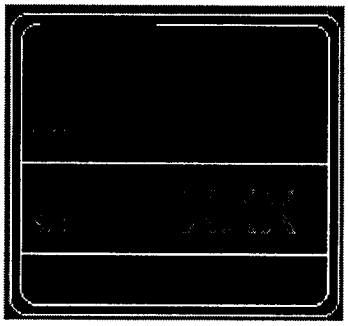

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Connections and Wiring

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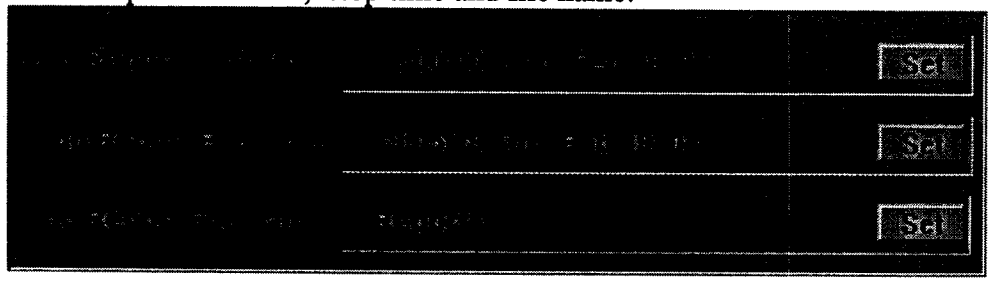

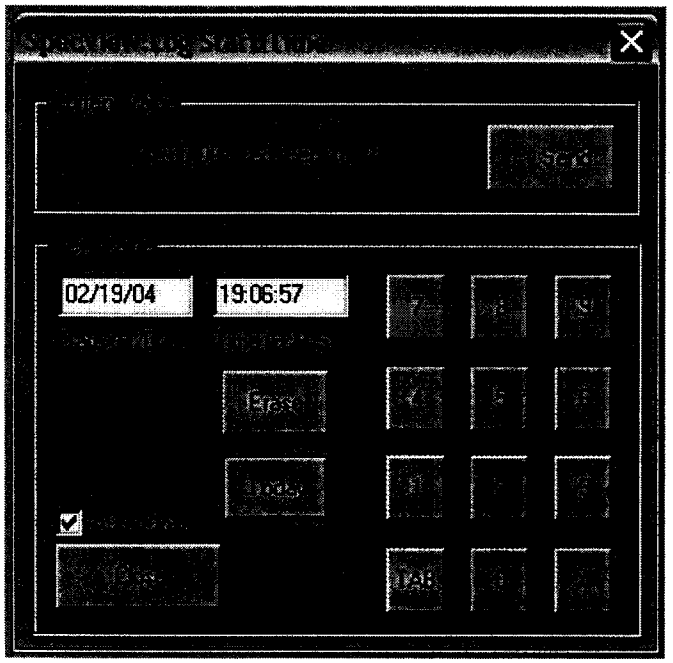

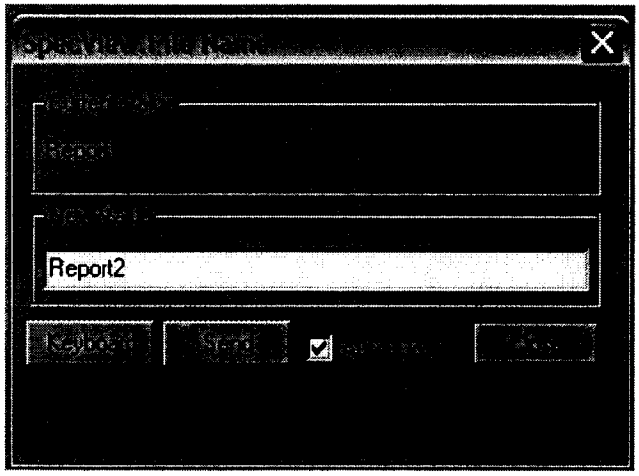

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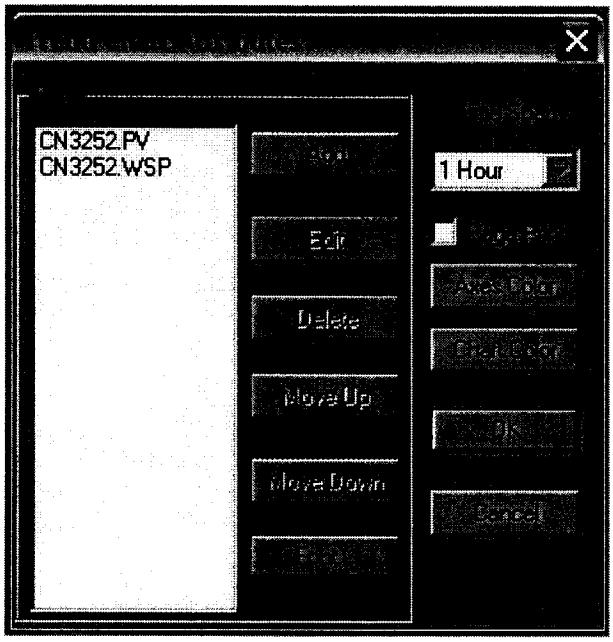

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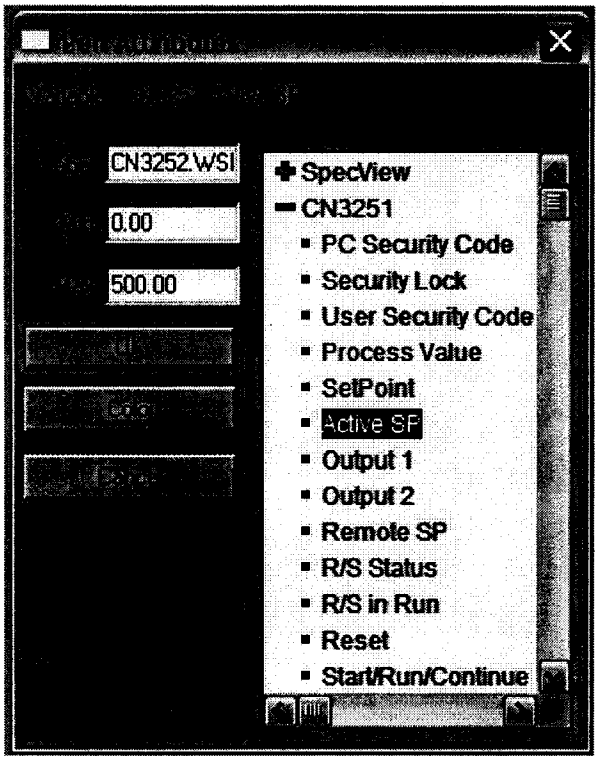
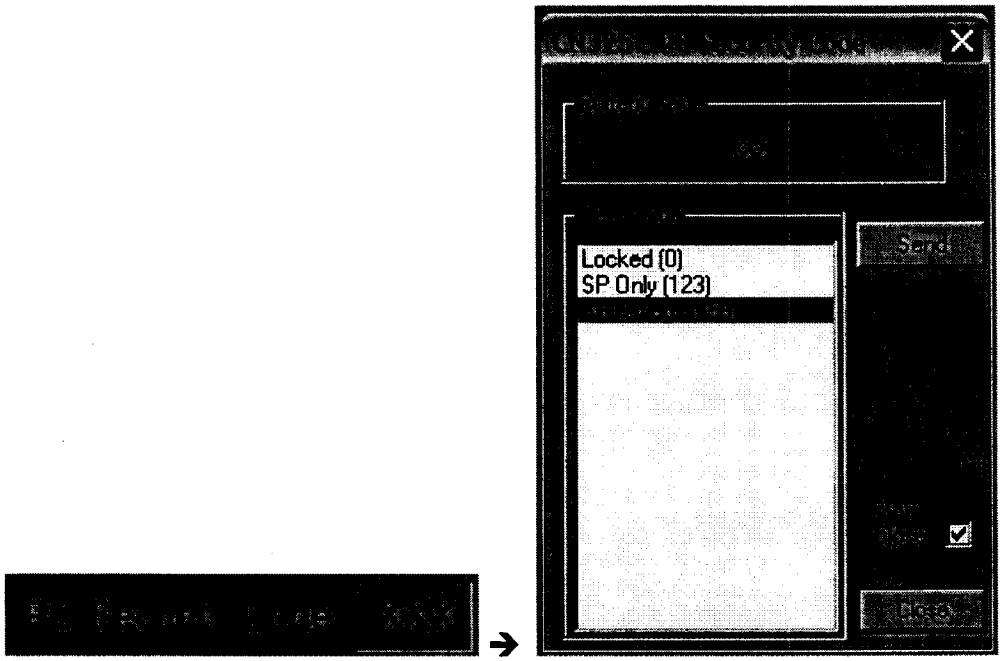


Profile Setup Screen

If this screen shows all XXX's the PC Security Code must be entered.

Clcik the XXX to enter:

Select "All Settings (458)"



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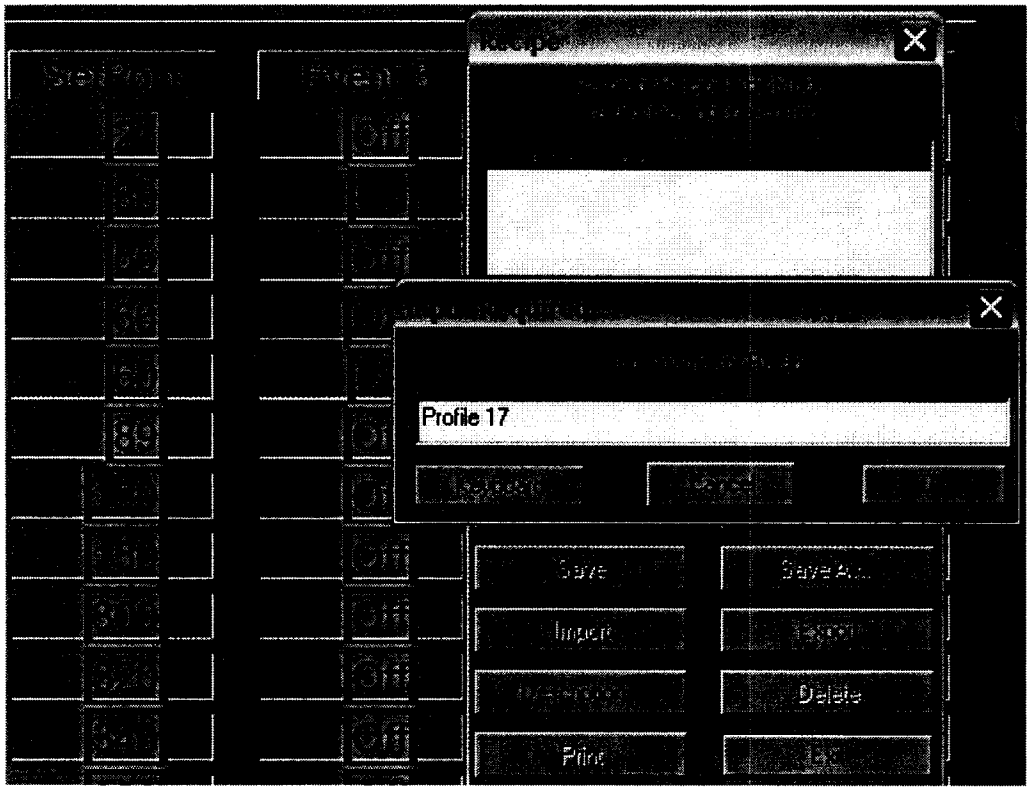

Click Exit when saved.

To recall a saved profile click the  button and select the name in the list.

The values on the screen will change to the stored values.

Review the profile and make any changes required.

When the values are correct click "Send". The values will be sent to the controller.

Instrument Setup Screen

CAUTION: Use care when making changes to the settings on this screen.

Refer to the controller manual before making any changes!

Incorrect settings can cause severe disruption to the normal performance of the controller.

The instrument Setup Screen works the same way as the Profile Setup Screen

The values on this screen relate to the setup and operating parameters of the controller.

The values of settings may be saved and recalled in the same way as the Profile Screen.

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