Installation

Download installation files

Check the physical manual 578M3 for instructions on downloading the files from the Parr website. Visit this link and download the files to the PC.

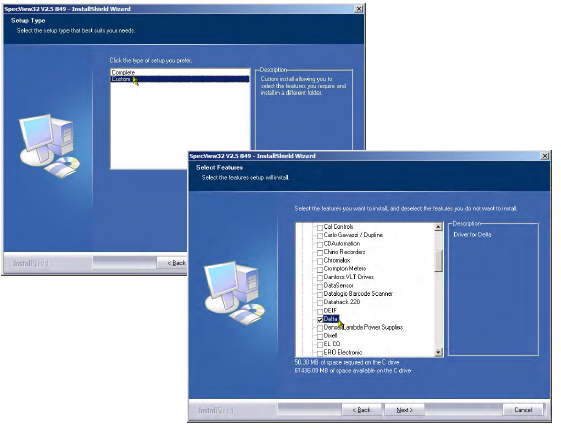
Install USB Conversion Drivers

Plug the A1925E series communication cable into an open USB port. If the PC prompts for driver installation, update the driver with the files which were just copied to the PC at “/communication cable”.

Install SpecView

In the copied files, open the "SpecView\_Install" folder and run the setup file inside it to run the installer.

Follow the screen prompts to install SpecView (see Figures below). During installation, you will have the default option to install a litany of device drivers for all sorts of instruments. In order to conserve disk space, choose the custom installation, deselect "demonstration configurations", and then deselect all the "device drivers" leaving the Delta driver checked.



The installation should complete and put an icon for SpecView on the desktop. It will also create a folder at “C:\SV3”.

Copy SpecView Configuration Folder to C:\SV3

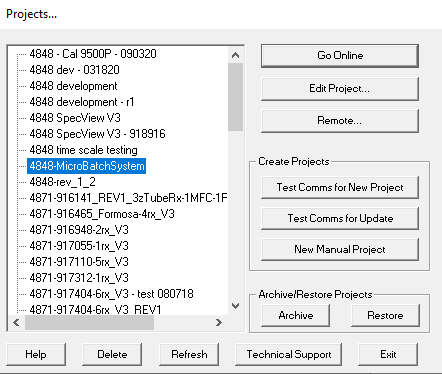
From the copied files, open the “MicroBatch\_2500” folder and select “4848-MicroBatchSystem\_BAR” or the “4848-MicroBatchSystem\_PSIG” to “C:\SV3”.

Set up SpecView communication settings

Put the 2181E dongle into an open USB slot. This is pass thru device which allows you to run SpecView for an unlimited period of time. Without it, SpecView may only run for ten minutes at a time.

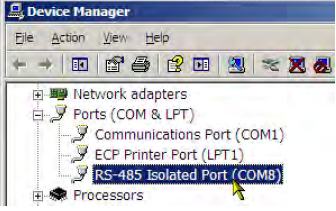
Start SpecView from the icon on the desktop. At the main screen “Select/Create Project” and select your configuration. Click on "Go Online ".





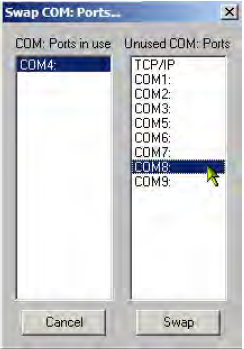
SpecView will start, but will likely give a COM port error on the initial start up. The COM port must be changed to match the COM port which the PC has assigned to the A1925E4 USB cable.

Determine which COM port has been assigned to the A1925E4 USB Cable. Go to the Device Manager (either from the Control Panel or select "run >> "devmgmt.msc" from the start menu). Expand the Ports section and determine which COM port matches the RS-485 device.

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Return to SpecView and select "file >> enter edit mode (go offline)".

Select "Setup >> Swap COM". Select the active COM port you determined in step 4. Click on Swap.

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Select "Setup >> Setup COM ports". Click on the tab corresponding to your active COM port. Change the Baud to "9600" and the Settings to "8E1". Apply the changes and click OK.

Select "file >> Enter Runtime Mode". The error should be cleared, and the interface should operate normally now.

Decimal Point Placement – Pressure in bar

By default, the modules are set to display with no decimal places. If the resolution on the meter is such that there are decimal places, the modbus address must be changed to match. Pressure displaying in Bar instead of psi is typically set to one decimal place and the SpecView software must be modified to show one decimal place as well.

The normal address for a Modbus instrument is (for example) 1,1J where the first character [1] is the instrument address. The ‘1J’ or ‘0J’ is a Modbus numeric formatting parameter that generally determines the desired number of digits to the right of the decimal point. All devices on the network must have unique addresses.

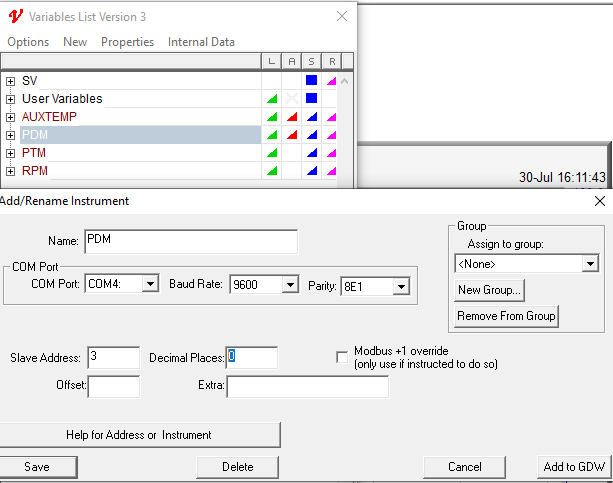
To change the modbus address to adjust the decimal point:

enter "file >> edit mode (go offline)"

enter "view >> variables and instruments"

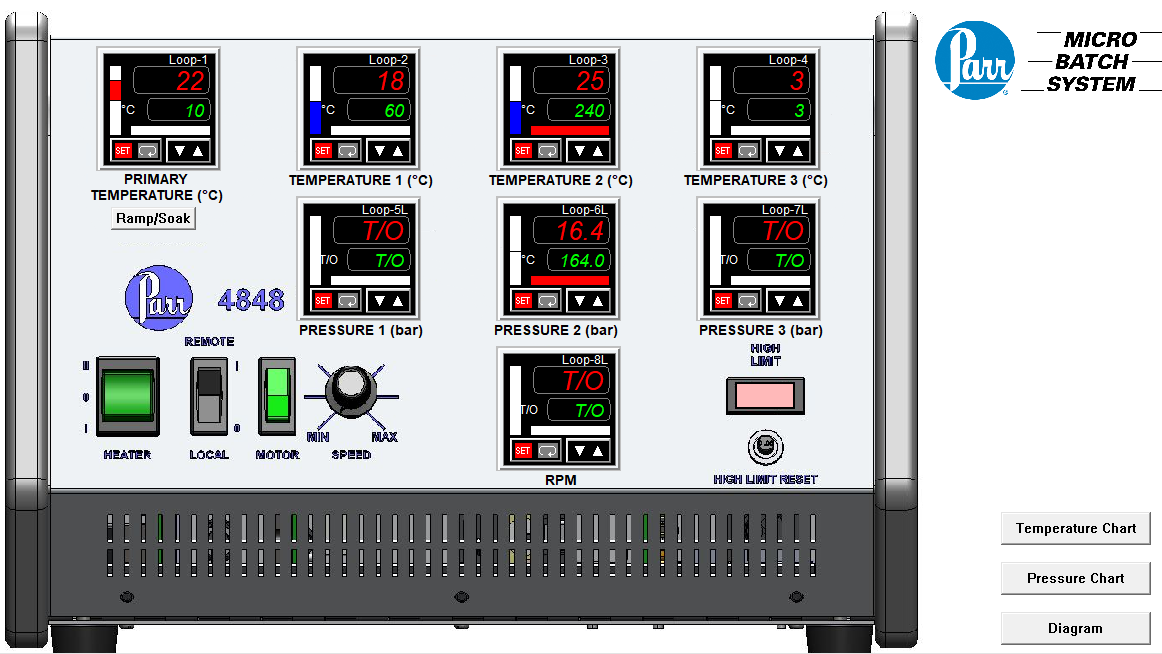
This opens the Variables window. Select PDM and then Properties.

At the Add/Rename Instrument window, select “Decimal Places” and change it from zero to 1



Select Save. Close the variables window, and return to the main screen by selecting “file >> enter run-time mode”.

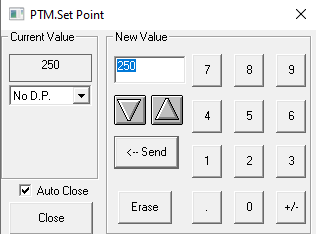
Parr 4848 SpecView Interface

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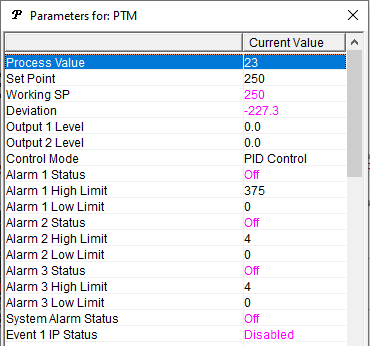
A controller will typically incorporate up to four individual display modules, represented by the four controller faceplate graphics, shown above. Any modules which are not present on the 4848 may be removed by going to configuration mode and deleting them.

The controller faceplate displays the current process variable in red on the upper display and the set point in green on the lower display. At the bottom of the faceplate are two buttons. The up/down arrow button on the right allows the user to set or adjust the set point.

Clicking on the button displays the following dialog box.

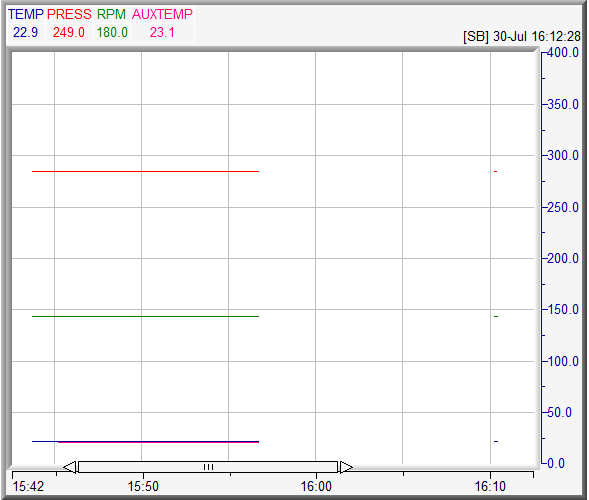


Clicking the “set” button to the left displays the complete parameter list for the instrument.



Clicking on any given parameter in the list displays a dialog box that allows the value to be changed.

Trend Charts

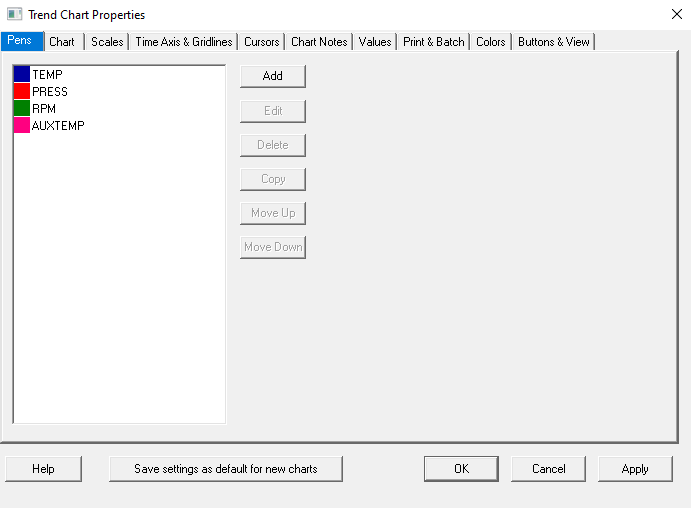


To see the scale of any Pen, click the label; for example, TEMP. However, this will only become noticeable if the Pens have different scales. This can be made more obvious if the Pens have different colors, as then the color of the scale will change too.

Cursors (the vertical lines) are used to display exact times and values.

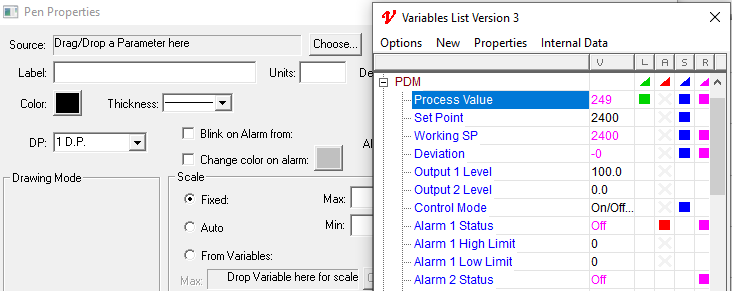
Trend Charts - Setup

To edit the chart click on the chart and select “Setup chart”.



All defined instruments previously selected using the Variables and Instrument list will be shown in the window. Click Add to add a new Pen, or Edit to edit an existing one.

Variable



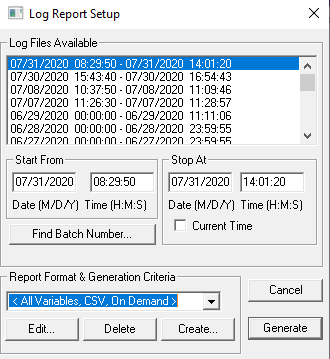
To assign a variable to a chart Pen, click on “choose” and drag the variable to the “Pen Properties” screen.

The pen color and scale can be set from here as well.

Datalogging:

The SpecView software automatically logs data whenever it is running, so datalogging is simply a matter of pulling out this data. To access the logged data, click on the “Log File Manager” button on the main screen.

Select the Log File which matches the time you wish to look at, and entering a "Start From" and "Stop At" time.



Click “Generate”. This creates the report in the C:\SV3 folder.

Locate Log File

The Log file has been created in the “C:\SV3\4848-MicroBatchSystem\_” folder.

The log file will be a CSV file which bears the name LOG-0000.csv, where the "00" is the next number in line when the file is created. If a second report is generated, it will be LOG-0001.csv and so on.