

Model 302 Six Channel USB Chromatography Data System Quick Start Tutorial

The Model 302 comes with a two meter USB cable, power cord, (may be either 120 or 220 volt) and a PeakSimple software disk. PeakSimple software may also be downloaded from www.srigc.com. Its a good idea to check the website in case a more recent software version has been released.

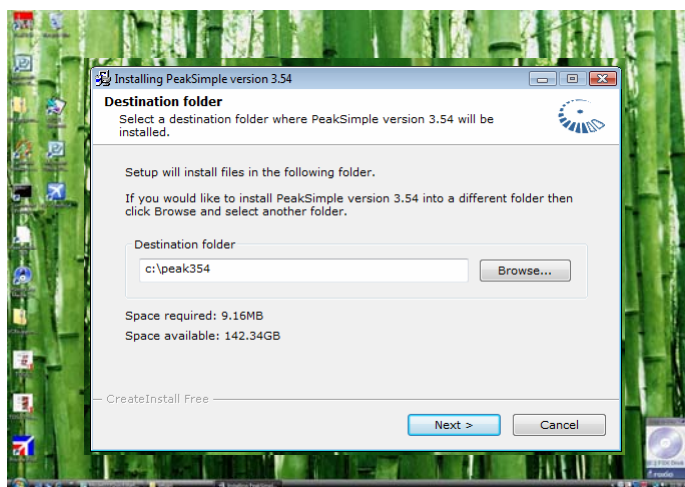
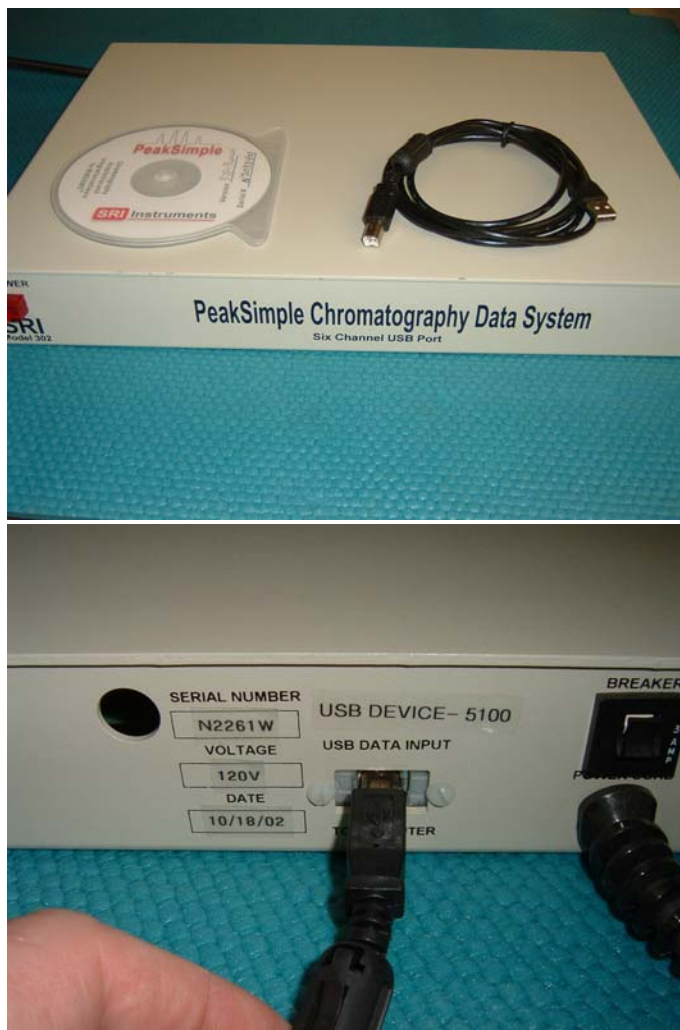
If the 302 A/D board is installed in a SRI GC rather than in a stand-alone box as shown then plug the USB cable into the right side of the GC. Also, if the 302 is installed in an SRI GC then all of the hardware connections will have been made already, you just have to install the software.

Plug the power cord from the 302 box into the mains wall socket and turn on the power switch located on the back of the stand-alone box. Plug the USB cable into the 302 box.

Wait until PeakSimple software is already installed before plugging the USB cable into your computer.

Install PeakSimple software from the CD disk or from the file downloaded from SRI's website. Browse to the CD or to the downloaded file on your hard-drive (C:\) . The file's name will be setup354 if it is version 3.54 of PeakSimple and setup356 if the PeakSimple version number is 3.56. PeakSimple is updated every few months usually to add a new feature.

Install PeakSimple in the suggested folder (C:\peak354) unless you have a very good reason to choose another. Using the typical folder name helps simplify the tech support process.



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When you click "Next" the PeakSimple software will be installed and you will see the screen to the right. Click "Finish"

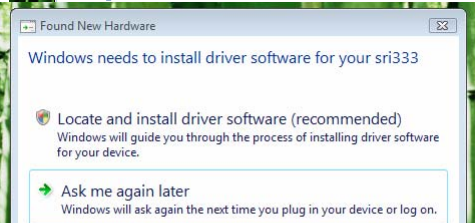
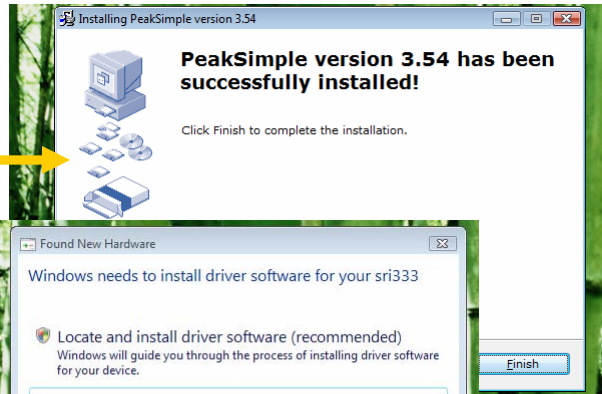
Now connect the USB cable to your computer.

A hardware "Wizard" will appear to help you install the USB driver. The example shown is for a Vista operating system. **For XP computers the "wizard" screens will be slightly different.**

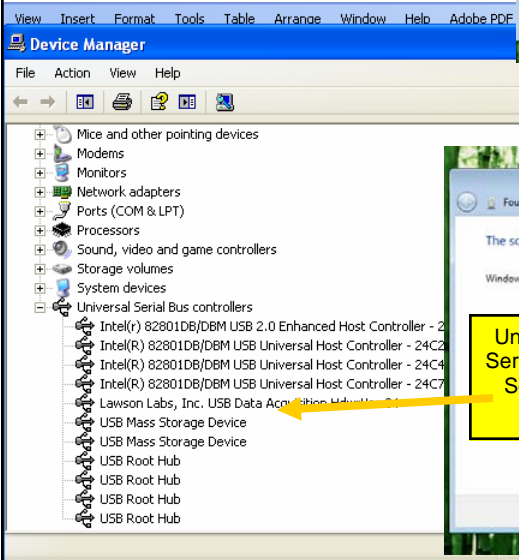
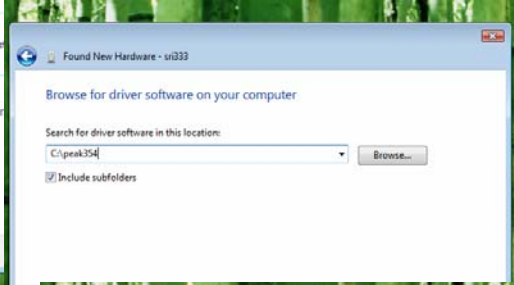


Follow the screens as shown

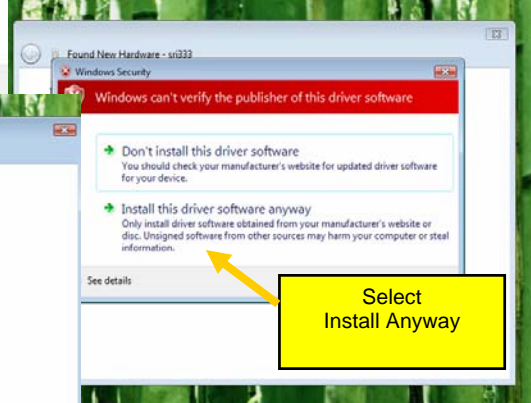
At the end of the process you can verify that the driver was installed by looking at the "Device Manager" screen in the "Control Panel"



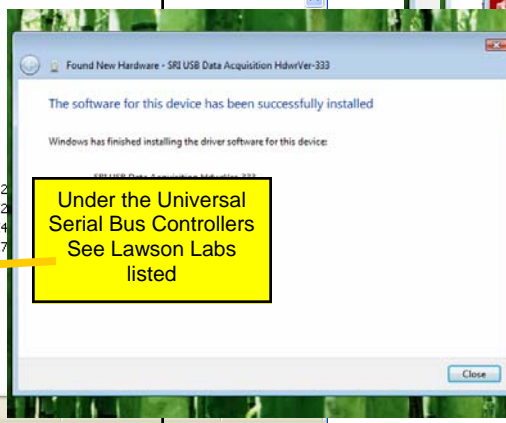
Browse at this point to the PeakSimple folder (c:\peak354) Since this is where the driver file is located.



Under the Universal Serial Bus Controllers See Lawson Labs listed



Select Install Anyway

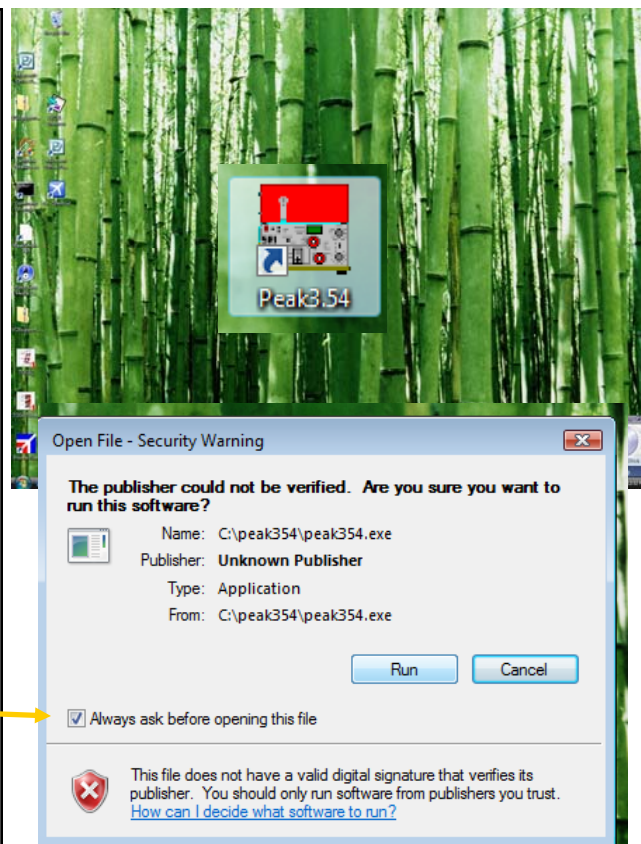


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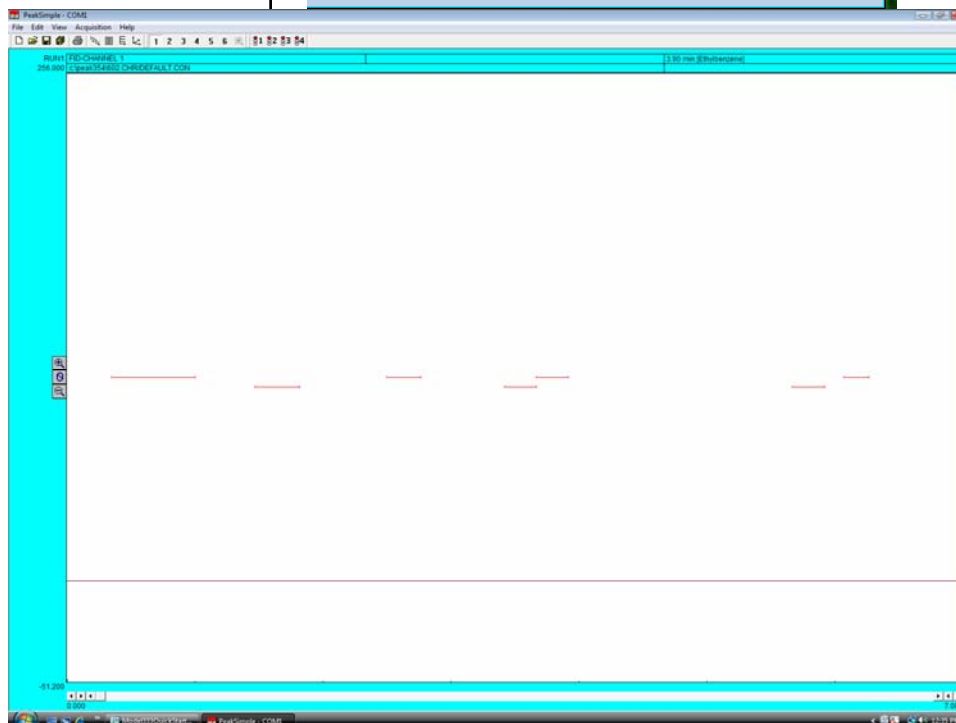
Click on the PeakSimple icon (which will be somewhere on the Windows Desktop screen) to launch PeakSimple.

This warning will appear, but click "Run " anyway.

You can un-check this box to avoid this message in the future.



The PeakSimple screen will look like this.



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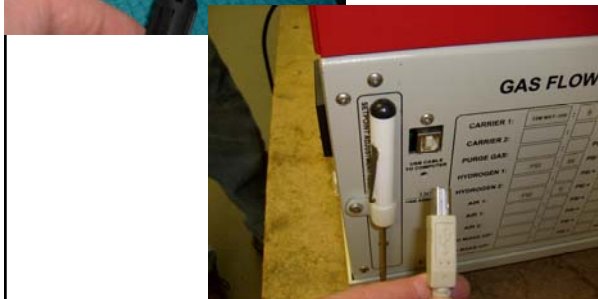
Use your mouse to click on “Edit” and then “Overall...”

In the “Overall...” screen enter the “Board Type” (302) and then the “USB device number”.

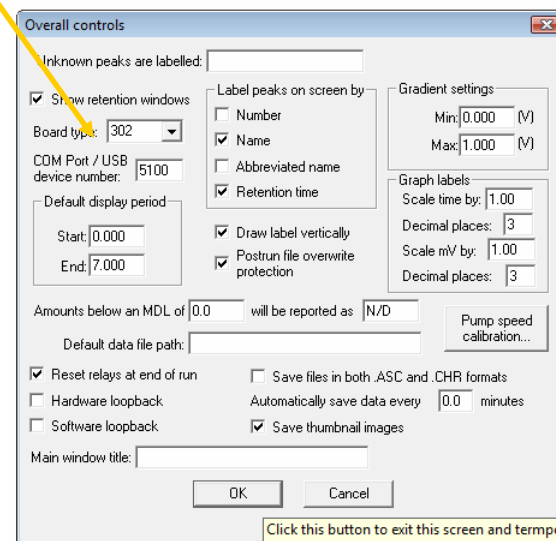
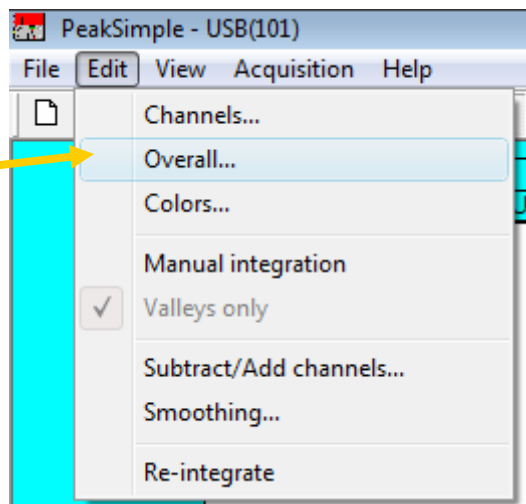
The USB device number is a unique number which identifies this particular 302 board. Because each 302 board has a unique number you can operate several of them independently on one single computer . The USB device number is printed on the back of the 302 box and also on the USB controller chip on the 302 board.



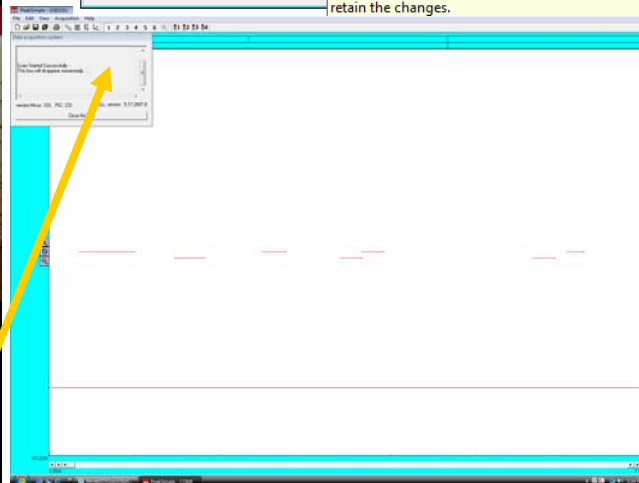
On a GC the device I.D.# is printed next to the USB jack on the side on the instrument.



When you click “OK” you will see a box on the top left of the screen which displays the calibration conversation PeakSimple has with the Model 302 board.



Click this button to exit this screen and temporarily retain the changes.



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Use your mouse to click on "Edit" and then "Channels" or just click on the "Channels Icon" which looks like the numbers 1,2,3,4.

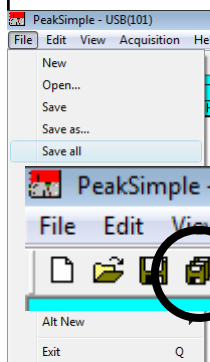
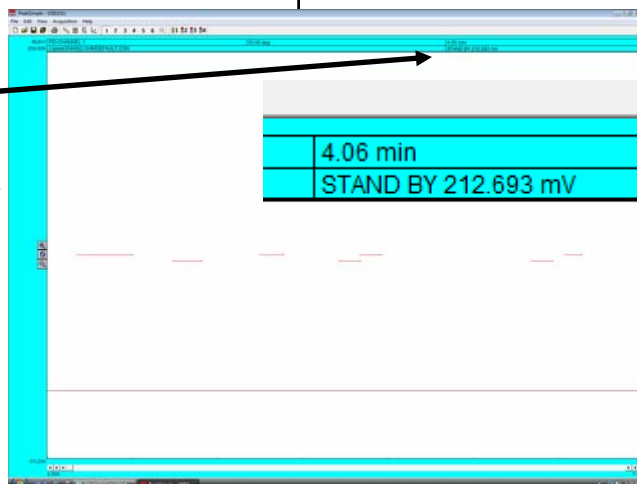
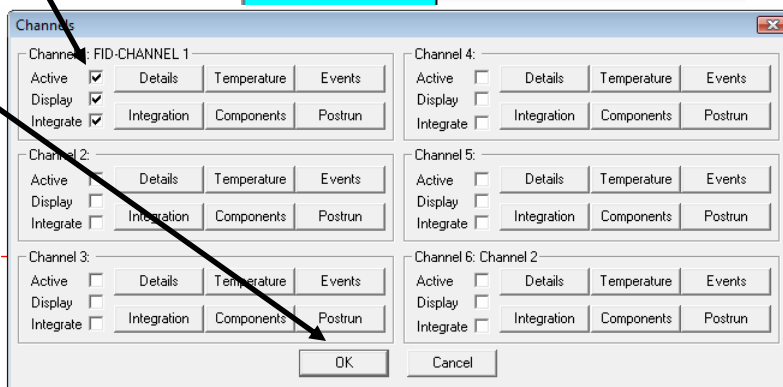
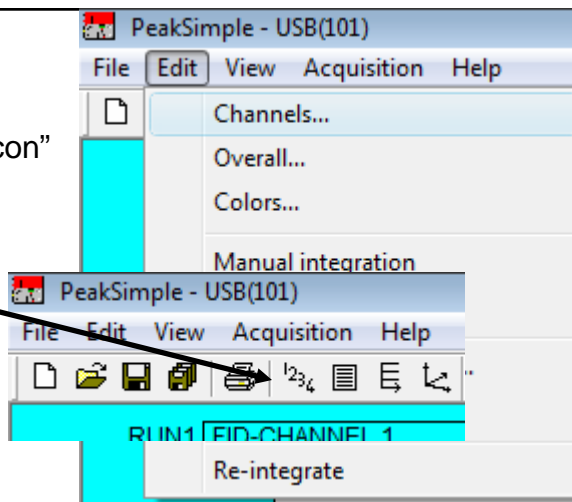
In the "Channels" screen verify that the "Active" checkbox for channel 1 is checked.

Then click "OK" to get back to the main screen.

If PeakSimple has successfully established communication with the 302 board, then the word "STAND BY" will appear on the top right of the screen with the detector signal value (in millivolts mV) just to the right. In the example to the right the signal is 212.693 millivolts. This number will change slightly every second because of the system noise.

Click "File" and then "Save All" or just click the icon which looks like a stack of floppy disks to save everything you have entered so far. If you forget to do this you will have to repeat some of the information you have entered like the USB device ID.#

next time you launch PeakSimple. Click Save All anytime you make changes to ensure PeakSimple remembers your changes.



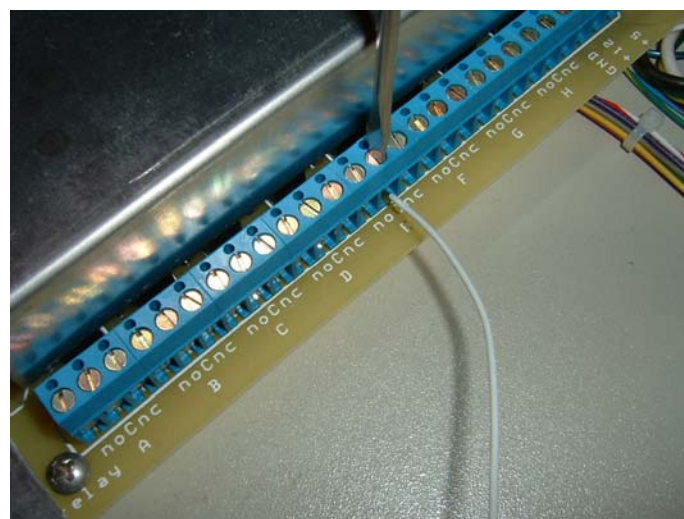
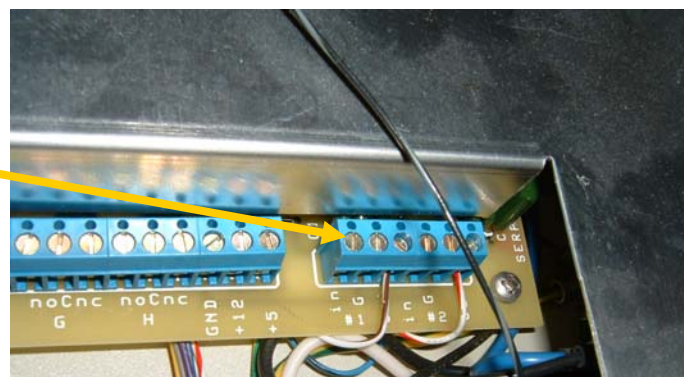
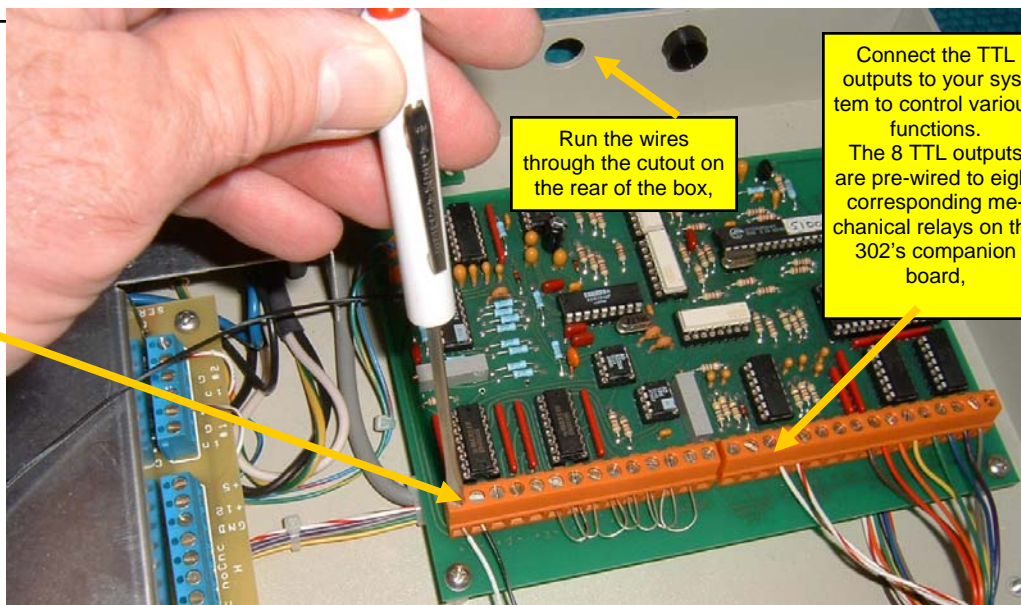
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Connect the detector signals to the 302 board using the terminals labeled In+ and In-. There are 6 sets of in+ and in- screw terminals

Choose the "Integrator", "Computer" or "Chart Recorder" output from your system. On attenuation 1, the "Chart Recorder" output is the same as the "Integrator" or "Computer" output.

Connect the "Remote Start" output from your instrument to the "in#1" (remote start) and G (ground) terminals on the 302 companion board. ***This step is OPTIONAL, you do not have to use the Remote Start feature..***

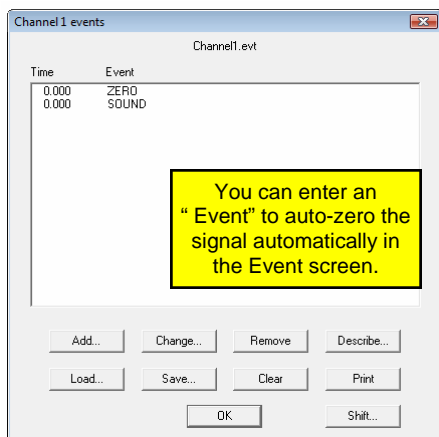
Connect the TTL (relay) outputs to your system. For example, if you wanted to actuate a Valco valve on your GC you could use the TTL outputs to trigger the valve. You may use either the TTL (0-5 volts DC) outputs located on the A/D board or any of the eight pre-wired mechanical relays located on the companion board, Each mechanical relay has a common (C), normally open (NO) and normally closed (NC) screw terminal. ***This step is also OPTIONAL, you do not have to use the TTL (relay) outputs..***



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Press the "Spacebar" on your computer's keyboard to start the Run. (there are several ways to start the run including a "Remote Start"). The word " Stand By " will change to "Running" and the data line will be drawn on the strip-chart area of the main screen.

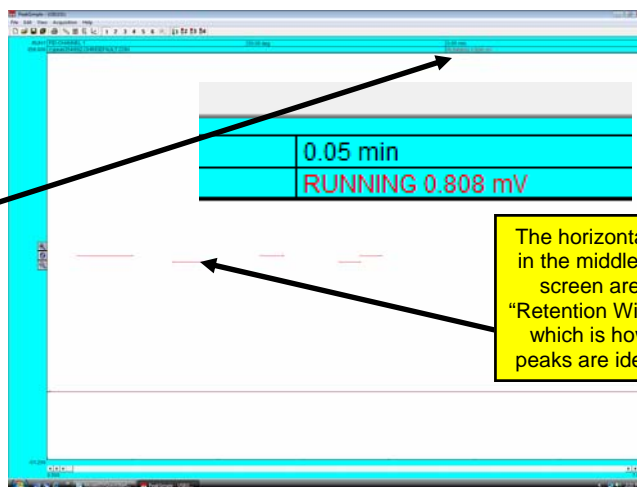
Click the Auto-Zero button to bring the signal down to 0.00 millivolts (there are several ways to auto-zero the signal including an "Event" in the Event Table which auto-zeros the signal automatically at the beginning of the Run).



You can enter an "Event" to auto-zero the signal automatically in the Event screen.

The " Run " will end at the time specified in the Channel Details screen unless you end it earlier by depressing the " End " key on the keyboard.

For more information download the PeakSimple tutorials on www.srigc.com or call SRI Tech Support at 310-214-5092



The horizontal lines in the middle of the screen are the "Retention Windows" which is how the peaks are identified

