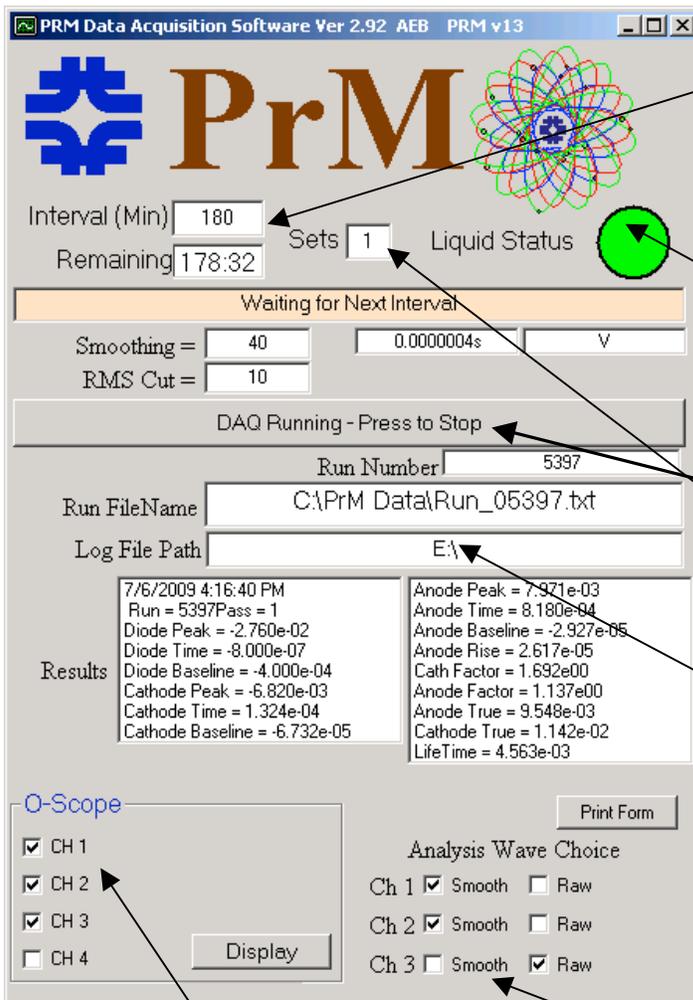


Luke Data Acquisition Primer 04/07/2010 S. Pordes & T. Tope & K. Swanson:
 Scope: Ch1, 2 and 3 on; Ch1 & 2 at 1 MOhm, ch3 at 50 Ohm and inverted (down arrow).
 On Menu bar: Display: Horiz/Acq -> Acquisition Mode -> Avg, 200 microsec, 2.5MS/s
 400 ns/pt, Ch1 and 2 to see signals (2 mV minimum), Photodiode in Ch3 inverted (use
 Vertical in menu bar) trigger on Ch3 at 20 mV.

Nim 'HV Relay Module' set to Remote Control (set to Local to check voltages)

Walter's Box on top: set to Auto. and RUN. The box turns the power to the flash-lamp
 on and off in response to a signal from the DAQ program. The power goes off after 100
 seconds to prevent damage to the light-fiber in case something happens to the computer
 or the program. The timing-fault light goes on. Push Reset to resume operation. **If the
 computer is off, the flasher may run. Set the lower switch on the box to OFF.**

The data acquisition program is called PRMv13 –shortcut on the desktop. The user sets
 the interval between sets and how many readings per set. Once the Liquid Status disk is
 green and the parameters in the boxes below are set, press the Start DAQ button to start
To take a reading –right now - press Stop DAQ and then Start DAQ.



**Minutes between readings
 To change, highlight and type
 new value. The lesser of the
 time to the next reading and
 the new interval will show –
 be patient**

**Interlock:If the disk is red,
 double-click on Liquid Status
 to run.**

Click to Start and Stop DAQ

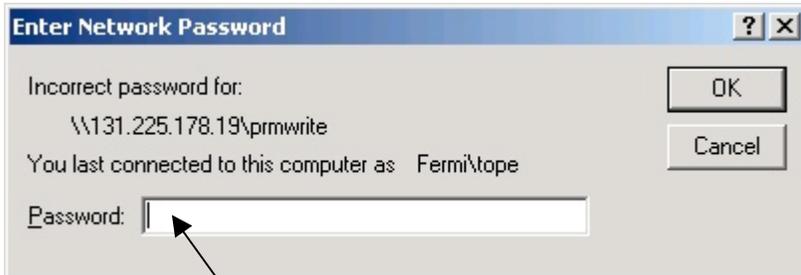
**How many data sets are taken
 each reading (usually set to 1)**

**Log File Path points to the
 mapped drive on the iFix PC –
 see the following pages for
 details**

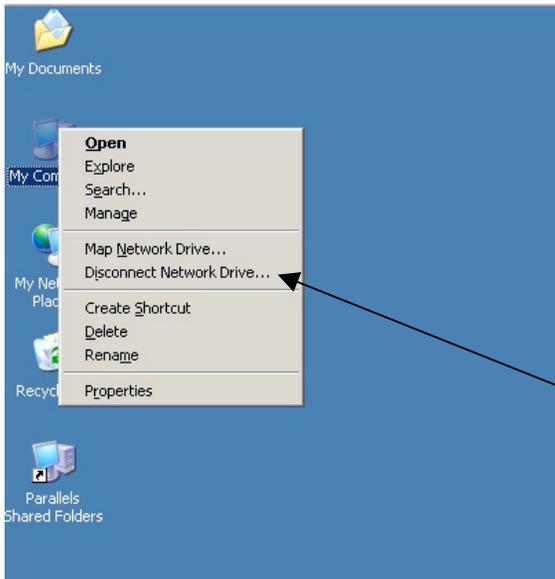
Ch1 ,2 and 3 ticked

**Ch1 & 2 Smooth, Ch3 Raw
 (takes 2 clicks to set)**

When the Tektronix scope PC is rebooted, it will try to connect to the iFIX PC by mapping a link to the iFIX PC hard drive. The scope PC writes the purity monitor data to the iFIX PC in the form of a .CSV file so that the purity monitor data can be included in the web server historical plots.

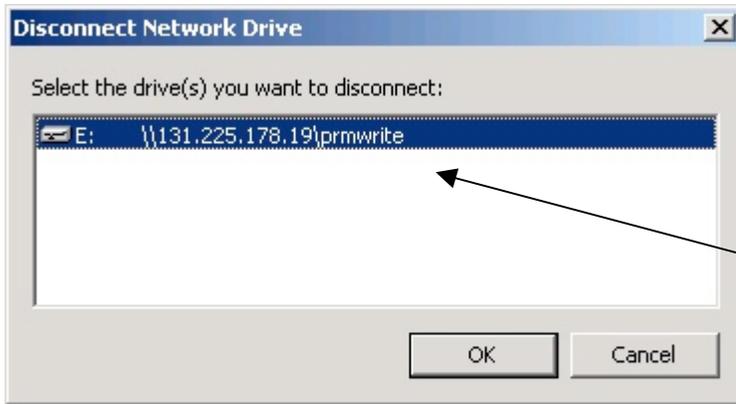


Upon reboot it will ask for the password of the last Fermi domain user to map the drive. If that user is available they should enter their password. Otherwise, click cancel.

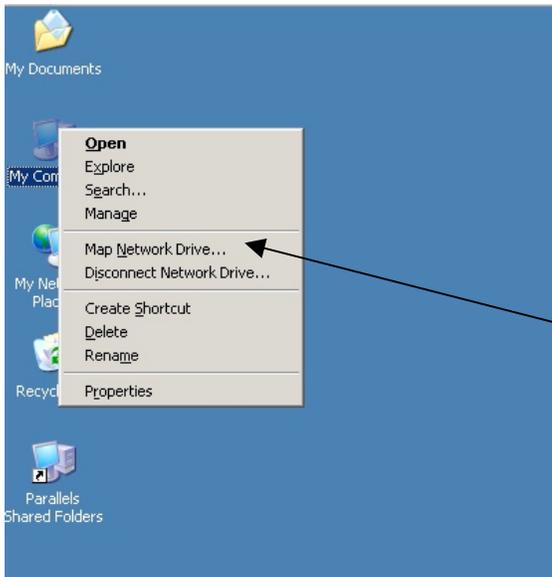


If the previously logged in user is not present, the drive must be disconnected and re-mapped.

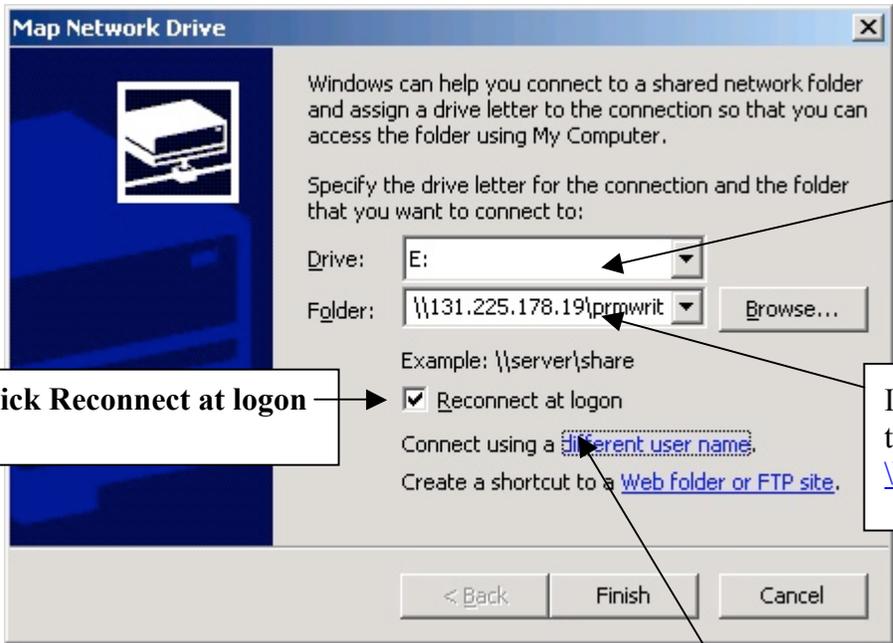
Right click my computer and select Disconnect Network Drive...



Select this drive and click OK.



Right click my computer and select Map Network Drive...

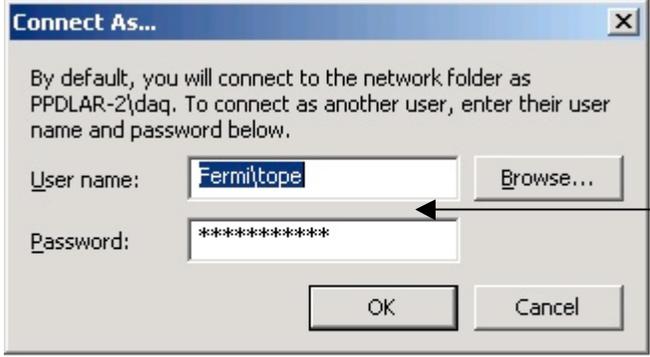


Select E:

Click Reconnect at logon

In the Folder data entry box type
[\\131.225.178.19\prmwrit](#)

Click Connect using a [different user name](#)



Enter the User name as Fermi\xxxx where xxxx is your Fermi windows domain user name and enter the corresponding password.

