

Setting up DASyLab with instruNet

Application Note #51, 11/22/2002

To use instruNet version ≥ 1.4 with DASyLab versions ≥ 5.02 , please do the following:

1. Install instruNet hardware and software (V1.31.4 or later) onto your computer following the directions in Ch1 of the instruNet manual, or the 1-page summary included with the instruNet DSP card. This involves running the instruNet "SETUP.EXE" file. The latest instruNet software is at www.instrunet.com.
2. Run instruNet World to ensure that your instruNet hardware is working correctly.
3. If you are a reseller: For DASyLab password & serial numbers that will invoke the instruNet interface for DASyLab, call Cj. If you had previously installed instruNet with a serial number that does not invoke the instruNet interface, you will need to reinstall (for V5) or update your installation (V5.x or later).
4. Install DASyLab V5.0 or later onto your computer using the DASyLab CD.
5. Restart your computer and launch DASyLab. Choose DEMO as the main driver (or any other driver). For V6.0 or later, choose instruNet as one of the secondary drivers ("components"). Verify that the instruNet option is listed in the summary installation dialog (you may need to scroll down to see it). DASyLab installation copies the correct files to your DASyLab directory and modifies the DASyLab.ini file. Make sure you have "program files \ DasyLab \ iNet_e.dll" version ≥ 1.11 (modified $\geq 11/19/98$) on your computer. This DASyLab-instruNet interface DLL is not compatible w/ DasyLab 4.

When you run DASyLab after the installation is complete, you will see an instruNet menu item on the Main menu bar (if you don't, please email your supplier for an instruNet compatible serial number). Use it to create Input and Output modules. The usual DASyLab Analog Input Module does not talk to the instruNet. If you do not see "instruNet" in the main menu bar, stop and contact DASyLab tech support (see www.dasylab.net) and include your serial number. You will be issued a new serial number, and then you will need to reinstall DASyLab with this number. You can simultaneously collect data from a traditional card, like a DAS card, or via the serial or IEEE488 devices. The instruNet is controlled and sampled independently of other types of inputs. The slowest instruNet sample rate is 1 point every 30secs. To go slower, use the signal averaging icon or the separate icon.

6. To collect data from an instruNet device, select Input Module from the instruNet menu item. Do not use the A/D icon or the Modules/Input/Output modules. Do not use Hardware Setup to setup instruNet devices. Use the Experiment/Timebase menu setting to select the instruNet sampling rate. All other setup is done through the instruNet Input or instruNet Output module properties.

7. Setting up your input or output channels is easy. Create an instruNet Input or Output module and open the Properties dialog by double-clicking on the module icon. Click on the Select Channel button to select the Network, Device, Module and Channel. Click on the Set Up Channel button to specify the type of sensor and other channel-specific options. Add channels by clicking on the + button. You must setup each channel individually.

8. The instruNet channel configuration is saved with the worksheet. Modifications using instruNet World or with other worksheets do not affect saved worksheets.

9. Do not run instruNet World at the same time that you run DASyLab. Each requires exclusive access to the installed instruNet hardware. Close instruNet World before running DASyLab.

10. To simulate instruNet hardware when none is installed: Make a copy of DASyLAB.EXE and rename it to DASyLAB demo_.EXE using Windows Explorer. Run this copy of DASyLab to activate the instruNet World demo mode (instruNet software must be installed). When you create an instruNet Input module, instruNet will generate a random waveform. This waveform is not timed, and generates data as quickly as possible, allowing you to simulate a long period of testing in a short time. For details on Demo mode, see Application Note #18.