LabVIEW Driver for Conditioning Amplifier type 269x-Nexus. Release 1.0: May, 2002

Introduction

This release includes almost complete support of the Amplifier and Transducer functions. The release includes the following components:

- A LabVIEW library of driver functions to set and get amplifier parameters.
- A LabVIEW library of examples showing how to use the driver functions.
- This Word document.

System requirements and installation

To run the LabVIEW driver functions you need to have LabVIEW 6i (6.0) (or higher) including ActiveX support installed. There are no other requirements.

To **correctly install your 269x-Nexus driver toolkit** and make use of all the functions and examples palettes:
- Close LabVIEW
- Unzip the downloaded 269x_Nexus_LabView6.zip file into your   ...LabVIEW **\instr.lib\ directory
- Launch LabVIEW.

From a diagram window open the **Functions→Instrument I/O→Instrument Drivers→** palette. You should now see a new item called B&K-2694 Nexus

The driver library

The driver library *269x-Nexus Driver.llb* includes a number of functions that are organized in different levels of hierarchy. High-level functions allow complete setup of any channel on any Nexus unit connected to any COM port. Figure 1 shows a simple diagram for the described hierarchy. (The figure is a screen-shot of the diagram of the *All VIs.vi* that is included in the driver library). Figure 2 shows a screen shot of the VI-hierarchy window for the included example.
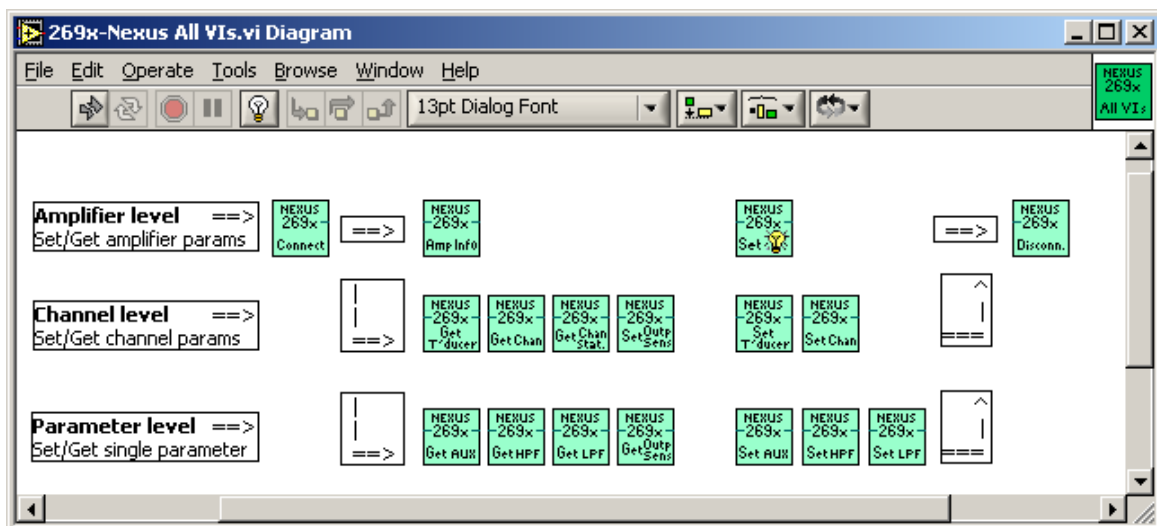

Figure 1: Diagram window of the All Vis.vi that is included in the driver library.

The example library

The library *269x-Nexus Examples.llb* includes 3 examples. Two of them are identical in functionality but differ on the front panel design. The examples show how to control a

single channel or all the channels on one Nexus amplifier that is part of a daisy chain on a COM port connection.
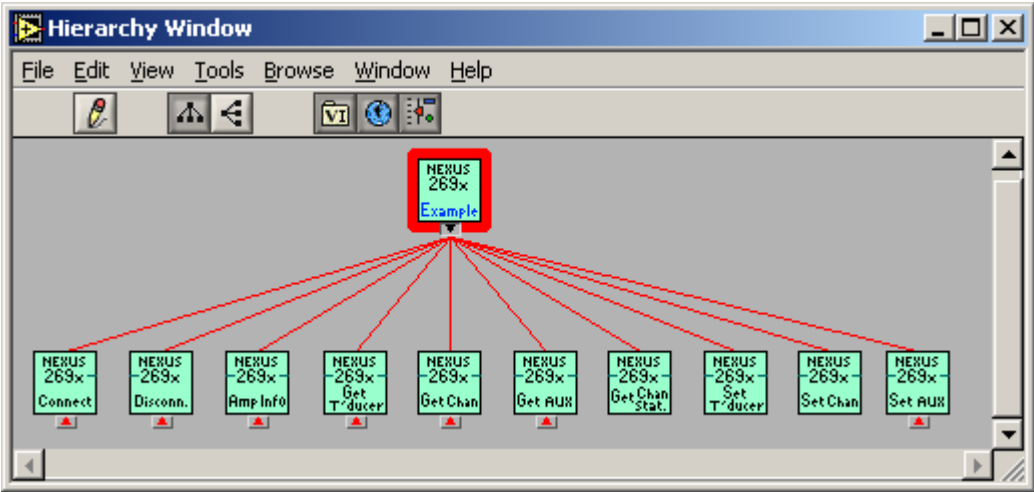

Figure 2: Hierarchy window for the main example VI

Questions and comments

Please do not hesitate to contact Kevin Bernard Ginn at KBGinn@bksv.com