

TAMS L488 Quick Start for National Instruments LabVIEW

1. Follow the steps in “TAMS L488 Quick Start for Windows”, but you can skip “Adding the L488 to Agilent Connection Expert (ACE)”.

2. Ensure that LabVIEW and VISA are installed on the PC and that the TAMS L488 is connected to your instrument.

3. Run the National Instruments Measurement Automation Explorer and make the following selections:

Right click on “Device and Interfaces”

Select "Create New..."

Select “VISA TCP/IP Resource”

Select “VXI-11 LAN Instrument”

Select “Manual Entry”

Type in the IP address of the L488

For “LAN Device Name”, enter "gpib0,N", where N is the GPIB address of your instrument, 0-30.

Click “Validate” and note the "VISA session successfully opened" message. If there is an error, double check the IP address, the GPIB address, the connection from the L488 to the instrument, and the power to the L488 and the instrument.

4. Build your LabVIEW program from the following elements:

All Functions / Instrument IO / VISA Resource Name Constant

Select the VISA Resource string that you just validated in the NI Measurement Automation Explorer

All Functions / Instrument IO / VISA / VISA Write

All Functions / Instrument IO / VISA / VISA Read

Here is an example LabVIEW program built from these elements. It sends the “*IDN?” query through the L488 at IP address 192.168.0.100 to the instrument at GPIB address 7, reads the response from the instrument, and displays the response:

