Anritsu Limited - European Measurements Division
Rutherford Close, Stevenage SG1 2EF, England, UK
Tel: +44 (0)1438 740011 - Fax: +44 (0)1438 740202

Anritsu ML248xA Power Meter Series
LabVIEW 7.0 Drivers V1.22

Introduction

The LabVIEW drivers version 1.22 implements all of the GPIB commands found in version 1.22 of the ML248xA Series firmware. For details on the GPIB command set refer to the ML248xA Series Programming Manual.

Requirements

The drivers require National Instruments LabVIEW version 7.0 software or later version. Version 1.22 of the ML248xA is also required. If using earlier versions of the firmware some of the LabVIEW VIs may not work correctly.

To find the firmware version of you Power Meter from the instrument front panel, press the 'System' key, then navigate the soft keys ' Service | Identity. The firmware version will appear on the first line of the Identity pop-up box. To find the firmware version using GPIB, issue the *IDN? Command once a successful connection to the instrument is established. If the firmware version is a version prior to 1.03 contact your local Anritsu Sales Office for an upgrade.

Installation

By default, the Au70ML248xA_LV1.22.exe file will install the driver in a folder called Au70ML248xA under C:\Program Files\National Instruments\LabVIEW 7.0\instr.lib. To change location, simply specify the desired folder within the dialog box of WinZip self-extracting utility.

IMPORTANT: The drivers folder must be installed in the LabVIEW 'instr.lib' folder. If installing to a different folder the drivers will not appear under the Function Palette when running LabVIEW 7.0.

Updates

Updates to this driver will be posted on the Anritsu website, www.anritsu.com

Release Changes

List below are changes made to the LabVIEW drivers since release 1.10

Additions:

- MKPSLT (ML248xA Advanced Marker Search Lower Target).vi
- MKPSSV (ML248xA Advanced Marker Search Start Value Source).vi
- MKPSUT (ML248xA Advanced Marker Search Upper Target).vi
- PAEBI (ML248xA PAE Bias Current Value).vi
- PAEBICF (ML248xA PAE Bias Current Conversion Factor).vi
- PAEBIS (ML248xA PAE Bias Current Source).vi
- PAEBV (ML248xA PAE Bias Voltage Value).vi
- PAECFG(ML248xA PAE Input Configuration).vi
- PAEO (ML248xA Output PAE Reading).vi
- PAESRC (ML248xA PAE Source Selection).vi
- PMNPBLO (ML248xA Output Pulsed / Modulated Profile Min Binary Long Format).vi

- PMPBLO (ML248xA Output Pulsed / Modulated Profile in Binary Long Format).vi
- PMXPBLO (ML248xA Output Pulsed / Modulated Profile Max Binary Long Format).vi
- SNCTAO (ML248xA Output Sensor Cal Factor Table in ASCII).vi
- SNCTAW (ML248xA Cal Factor Table Direct ASCII Write to Sensor).vi
- SNOTADD (ML248xA Add Offset Table Entry).vi
- SNOTID (ML248xA Offset Table Identity Name).vi
- SNOTVLD (ML248xA Valid Offset Table).vi
- SNUNIVM (ML248xA Universal Sensor Operation Mode).vi
- SNUNIVM? (ML248xA Universal Sensor Operating Mode).vi
- NVAPN (ML248xA Instrument to Pre-defined Application Setup Number).vi
- NVLOAD (ML248xA Saved Setup store over the GPIB).vi
- NVOUT (ML248xA Output the saved setup over the GPIB).vi
- SYSTEP (ML248xA Increment/Decrement Step).vi
- SYSTEP? (ML248xA Increment/Decrement Step).vi

Modifications

- TRSAMPL (ML248xA Sample Rate).vi
- PPFUNC (ML248xA Post-processing Function Module).vi
- SYSTATE (ML248xA Status Message).vi
- PPACQRT (ML248xA Restart Post Processing Acquisition).vi
- CHUNIT (ML248xA Channel Units).vi

Removed

- CWAVGLL (ML248xA Auto Low Level Averaging).vi
- TTRES (ML248xA Statistical Post-processing Sample Class Resolution).vi
- PTAVBO (ML248xA Output Power vs. Time Profile Average Data in Binary Format).vi
- PTAVGO (ML248xA Output Power vs. Time Graph Average Data in ASCII Format).vi
- PTCO (ML248xA Output Power vs. Time Channel Readings).vi
- PTMNBO (ML248xA Output Power vs. Time Graph Min Data in Binary Format).vi
- PTMNO (ML248xA Output Power vs. Time Graph Min Data in ASCII Format).vi
- PTMXBO (ML248xA Output Power vs. Time Graph Max Data in Binary Format).vi
- PTMXO (ML248xA Output Power vs. Time Graph Max Data in ASCII Format).vi
- SNIDS (ML248xA Sensor Auto ID State).vi
- SNCXIDN (ML248xA Sensor Correction Store ID Number).vi
- ML248xA Error Query.vi
- ML248xA Error Query (Multiple).vi