TAA-1ETMP1800A0743

G0375A Control Software Operation Manual

1 Outline

This software performs remote control over USB of the G0375A 32Gbaud Power PAM4 Converter (hereafter G0375A) to set the Output Gain.
This software can control up to four G0375A units.

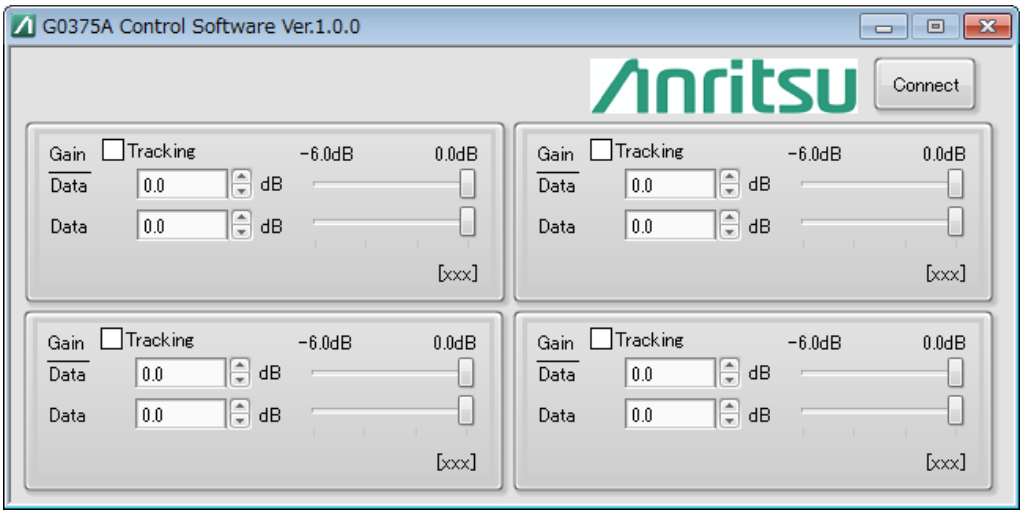


Figure 1-1 G0375A Control Software display

2 Installing/Uninstalling

2.1 Installing

Decompress the file labelled “G0375_6A_Control_Software_Vxxx.zip” and copy the resulting folder labelled “Installer_Vxxx” to the MP1800A or PC. Then double-click the “setup.exe” file in the copied folder to run the install. (xxx in Vxxx indicates the version. For example, Version 1.0.1 is displayed as V101.)

Note:

・ At first installation of this software, about 30 minutes is required to install the NI-VISA Runtime.
・ About 1 GB of free HDD space is required to install this software.

2.2 Uninstalling

Double-click the installer .exe file and select [Remove]. Alternatively, run the software uninstaller from the Windows Control Panel.

Note:

This software uninstaller does not uninstall the NI-VISA Runtime.

2.3 Version Upgrade

Install version upgrades after first uninstalling the old software version as described above.

3 Usage

This section explains the G0375A configuration mounted in the MP1800A. The option configuration and used instruments are listed below.

- G0375A
- MP1800A-015
- MU181000A
- MU183020A-x13 + x30
- Sampling Oscilloscope

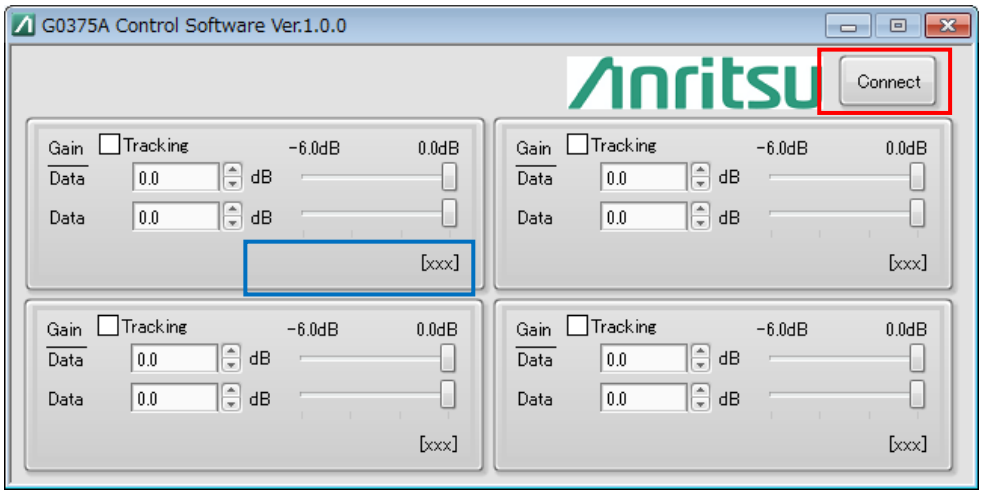
3.1 Connecting with G0375A

1. Set-up the connections.
Power-on the G0375A and connect to the MP1800A using the USB cable. Refer to the G0375A/G0376A Quick Guide for details of the 32G PPG and G0375A connections.

2. Start the software.
Double-click the icon to start the G0375A Control Software.

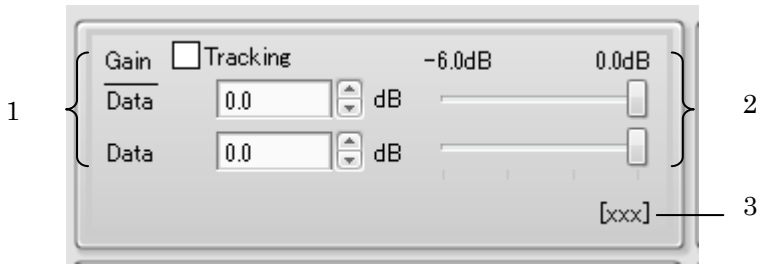
3. Click the [Connect] button.
When the software detects the G0375A, the serial number of the controlled G0375A is displayed.

4. After use, quit the software.
Double-click the × button to quit the software.



3.2 Setting Output Gain

This section explains how to set the Output Gain of PAM4 signal using this software.



1. Set the Gain (input numeric values).
   Set the Gain for each of Data and $\overline{\text{Data}}$.
   Setting Range: 0.0 to –6.0 dB in 0.1 dB steps
   Default Value: 0.0 dB

   When the Tracking checkbox is checked (ON), the Data setting tracks the $\overline{\text{Data}}$ setting.

2. Set the Gain (slider setting).
   Use the mouse to drag the slider to input values.

3. Display the G0375A serial number.
   The serial number of the G0375A is displayed in the GUI. When controlling two or more G0375A units, to identify which unit is controlled confirm that the serial number of the G0375A unit matches the serial number displayed by the GUI.