DAQLog Quick Start

Install the software and hardware

Complete the following steps to install DAQLog and your LGR-5320 Series device.

1. Install DAQLog from the DAQLog CD.
2. Insert the blank SD card that came with your DAQLog device into the SD card slot on the device.
3. Connect the external power supply to the power connector on the device, and connect the device to a USB port.
4. Connect channel 0 of the device to an analog signal source so the device acquires data in single-ended mode.
5. Remove any other SD, SDHC, or flash drives that are installed in your computer.

Run DAQLog and add the SD card

Complete the following steps to launch DAQLog and add the SD card.

1. Launch DAQLog.
2. Click **Add SD card** toolbar button  .
3. Click **Continue** in the first **SD Drive Selection** dialog box.
4. Click **OK** in the next **SD Drive Selection** dialog box.

The SD card displays in the **SD Drives** pane.

Configure a settings file

Complete the following steps to create a settings file on the SD card that configures a LGR-5320 Series device to acquire analog data.

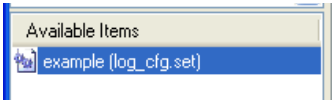
Make sure the SD card is selected in the **SD Drives** pane

1. Click **New Settings File** toolbar button  to open the **Configuring Logging Session** dialog box.
2. In the **Settings Target** list, select the device to configure.
3. Enter `AI0 example` in the **Name** field, and click **Next** to open the **Configuring Analog Inputs** dialog box.
4. Configure channel 0 as shown below, and clear all other **Log** checkboxes for the remaining analog channels.

Chan	Log	Name	Mode	Range	Units
0	☑	AI0 example	SingleEnded	±10 Volts	Volts
1	☐		Differential	±10 Volts	Volts

5. Click **Next** on the next two dialog boxes to accept the default settings for counter and digital inputs and to open the **Configuring Acquisition Startup, Timing, and Duration** dialog box (counter and digital data is not logged in this example).
6. In the **Post-Trigger** row, enter `500` in the **Scan Duration** textbox and `1,000.0` in the **Scan Rate** textbox, and then click **Next** to open the **Configuring Event Recording** dialog box.
7. Clear all checkboxes in this dialog box and click **Finish**.

The settings file is saved to the SD card and displays in the **Available Items** pane.



Load settings and log data

Complete the following steps to log data with a LGR-5320 Series device using a *10 Hz, ±5 V sine wave* as a signal source:

1. Disconnect the USB cable from the device.
2. Press **LOAD** on the device to load the settings file to the device
3. Press **START** on the device to begin logging data.
4. When the **LOG** LED turns off, the device has finished logging data.

Convert a data file

Complete the following steps to convert the data file to a comma-separated value (`.csv`) file:

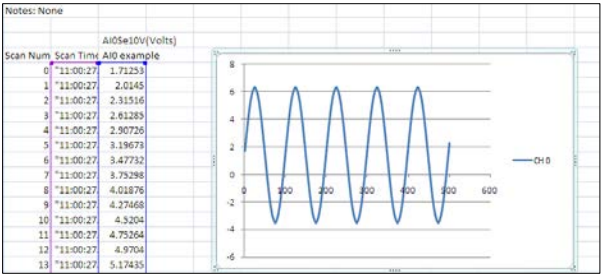
1. Connect the device to a USB port.
2. Select the SD card on the **SD Drives** pane, and then click **Refresh Location** toolbar button  .
3. Click on the folder in the **Available Items** pane, select `log0000.dat`, and then click the **Convert Data File** toolbar button  to convert the data file to a `.csv` file.

View a data file

Complete the following steps to view the `.csv` file in a spreadsheet:

1. Click the **Data** folder in the **Data File Folders** pane, browse the folder in the **Available Items** pane, and select `log0000.csv`.
2. Click the **Locate File on Drive** toolbar button  .
3. Open `log0000.csv` in your default spreadsheet application.

A `.csv` file opened in Microsoft® Excel® and plotted on a scatter chart is shown below.



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