Vernier sensors

Overview

Vernier is a company that makes plug-and-play sensors for hands-on science education.

We supply many Vernier sensors to BMEN classes for their labs, and students (outside of BMEN) are welcome to check out sensors directly from the Electronics Center as well. These are the Vernier sensors you can check out from the ITLL: link to inventory

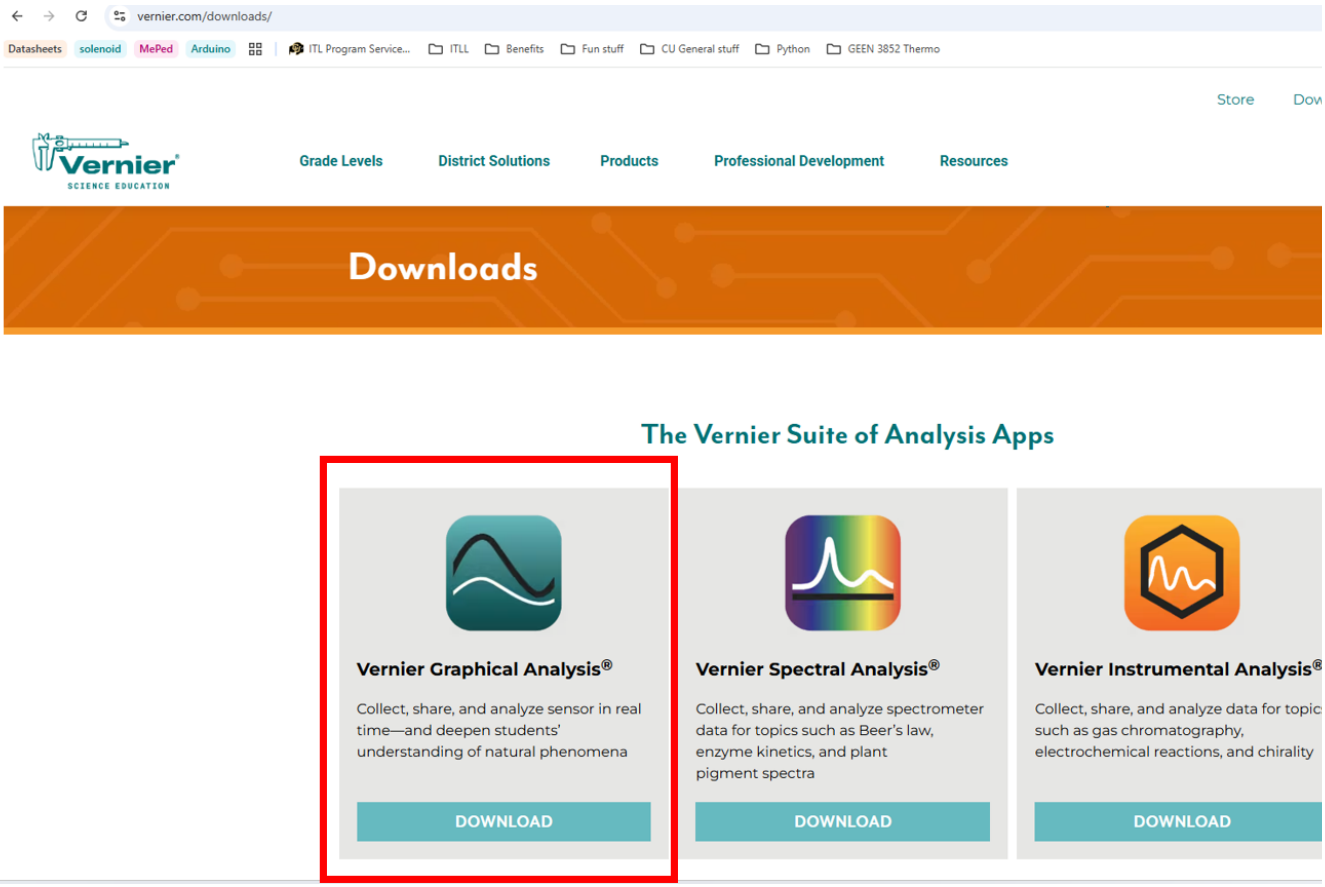
How to connect to a Vernier Sensor

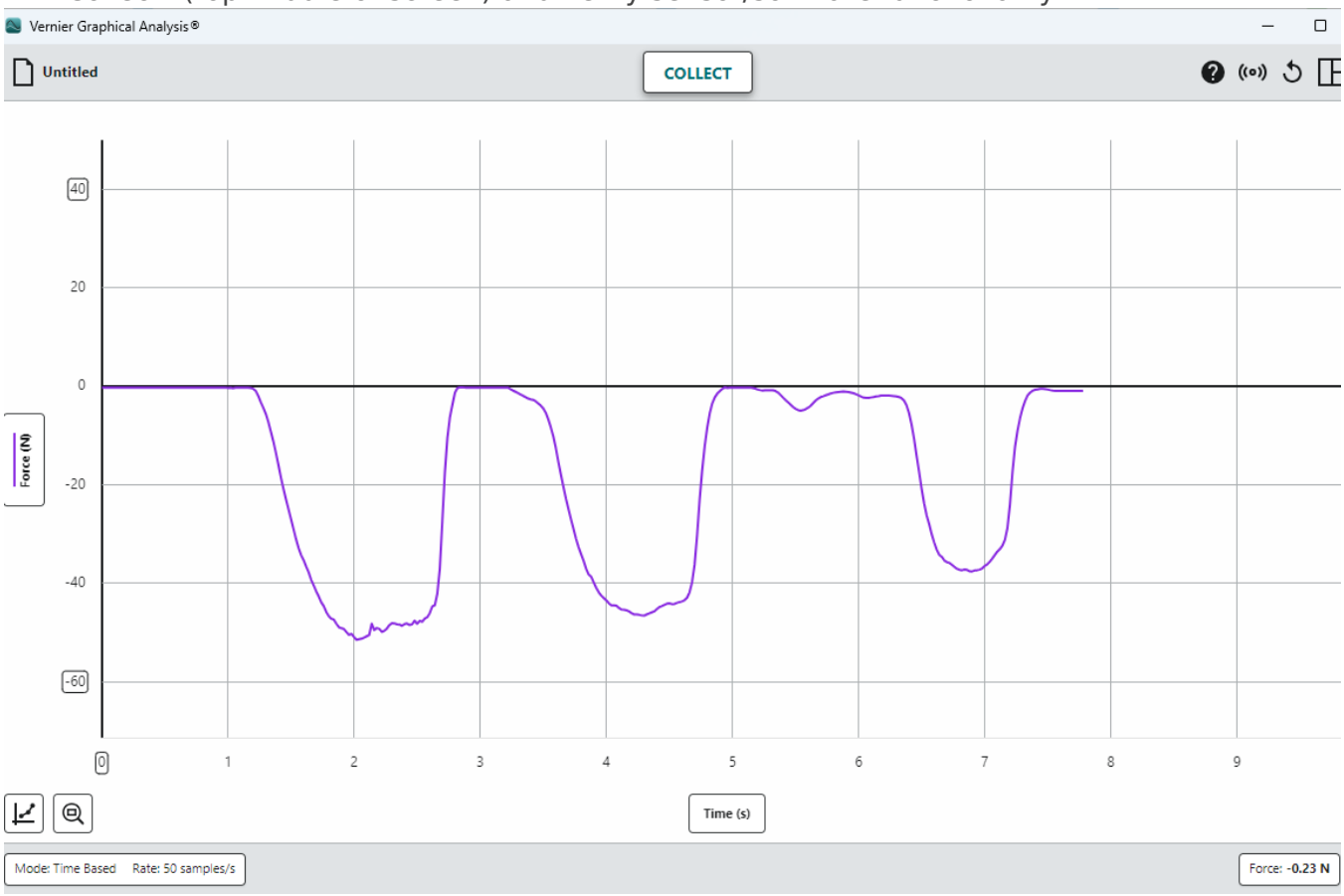
The easiest way to log data from a Vernier sensor is by plugging it in to a LabQuest DAQ, connecting the LabQuest to a computer via USB, and recording data using the free Vernier Graphical Analysis software.

If your class requires you to use LabVIEW, or you just prefer using LabVIEW for data acquisition, there is an option to read Vernier sensors in to a LabView VI program.

Step by step instructions to read Vernier sensors in LabVIEW (if you don't want to use LabVIEW, follow steps 1-8):

1. Install Vernier Graphical Analysis

2. 

3. Plug in your sensor to the LabQuest DAQ, connect LabQuest to computer via USB cable.
4. Launch Vernier Graphical Analysis
5. Select "Sensor Data Acquisition"
6. Hit "Collect" (top middle of screen) and verify sensor/software functionality
7. 

8. If you want to save the data to .csv file, select File>Export>csv

9. Install LabVIEW/Vernier interface

LabVIEW Virtual Instrument Downloads for LabQuest® Interfaces

Home > Downloads > LabVIEW Virtual Instrument Downloads > LabQuest® Interfaces

Overview



Our **LabQuest** interfaces allow you to connect over 75 Vernier LabQuest sensors. LabVIEW graphical programming is a great way to capture and analyze sensor data, automate scientific experiments and introduce students to software used by researchers and professional engineers.

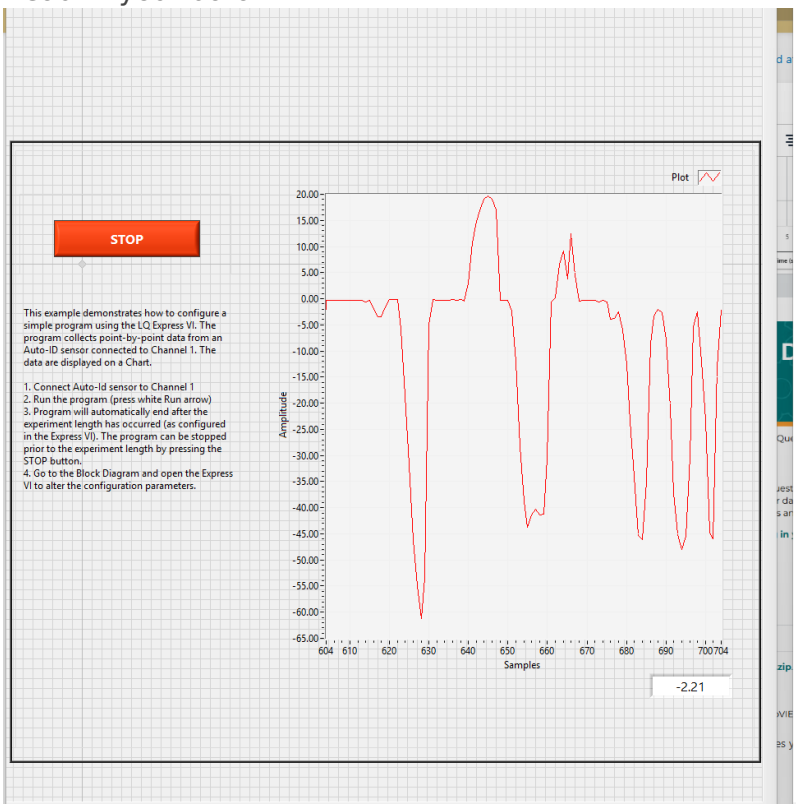
Use our **free activity book to introduce NI LabVIEW programming in your classroom.**

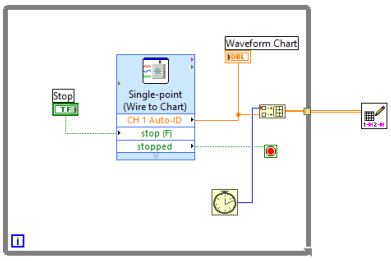
Installation Instructions

Choose your version of LabVIEW to see installation instructions.

— LabVIEW 2023 or Newer (Windows)

1. Download the zip file **Vernier_Win_LabVIEW_2023_Or_Newer.zip**.
2. Extract the contents into a folder.
3. Open the ReadMe.txt file.
4. Follow the instructions to move the LabVIEW files into your LabVIEW directory.

10. **Follow the instructions from Vernier (screenshot above).** The ReadMe.text file truly guides you through everything you need to do to get LabVIEW interfacing correctly with Vernier.
11. Launch an example file VI such as "LQ Analog Starter.vi"
12. Read in your data!
13. 



Created 2026-05-01 11:41:23 MDT by Claire
Updated 2026-05-01 12:01:46 MDT by Claire