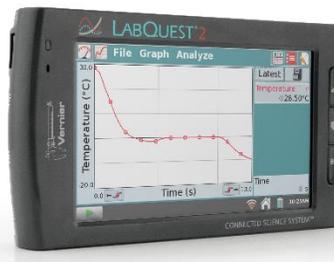


# LabQuest Quick Start Guide

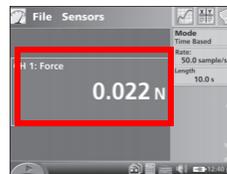
## Steps to follow:

1. **Power On** using power button. 
2. **Connect** any digital or analog sensor into their corresponding port.
3. **Zero or Setup** sensor – See details below.
4. **Setup Data Collection** – See details below.
5. **Run Test** – See details below.
6. **Save and View Data** – See details below.



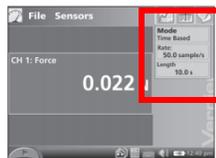
## Zeroing or Unit Selection

1. On the main menu tap on the sensor readout.
2. Change Units or Zero if needed.
3. If you feel the calibration is off or need help in this area, please ask at the PSC.



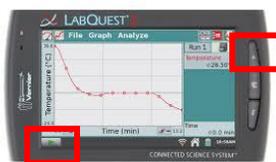
## Setup Data Collection

1. Tap the bar on the side of the screen.
2. Set to time-based collection.
3. Set the frequency / rate of the collection.
  - a. This should be at least 2X but preferably 10X the maximum frequency from your data.
  - b. Max Sample Rate with One Sensor – 100,000 samples/s (decreases with more sensors)
  - c. Maximum Samples – 2000 at rates above 20K samples/s or 21,000 at rates less than 10K samples/s. This decreases if you have previous sets of data still stored.
4. Triggering (optional) – If you want to begin data collecting after a certain condition is met use the triggering options to determine when and how data should be collected.
5. Set the duration.
6. Press OK when finished.



## Running Tests and Handling Data

1. Press the physical or digital run button.
2. Let the test run the full duration or press the run button again to end the test early.
3. Use the filing cabinet icon to save and begin a new data set with the same parameters.
4. In the same corner click run 1, run 2, ..., or all data to view specific sets of data and work with them.
5. Use the graph and analyze tabs at the top to see multiple graphs, find tangents, integrals, curve fits, etc. (use the stylus to highlight and select portions of the graph)
6. Use the Table icon in the corner to view data in table form and create, modify, or delete columns of data.



## Saving Data

1. To save the data press file, **export**, and select where and what to save the file as. You can store to the provided SD card or a USB drive. Data is saved as a .txt file which can be opened in MATLAB or Excel.