
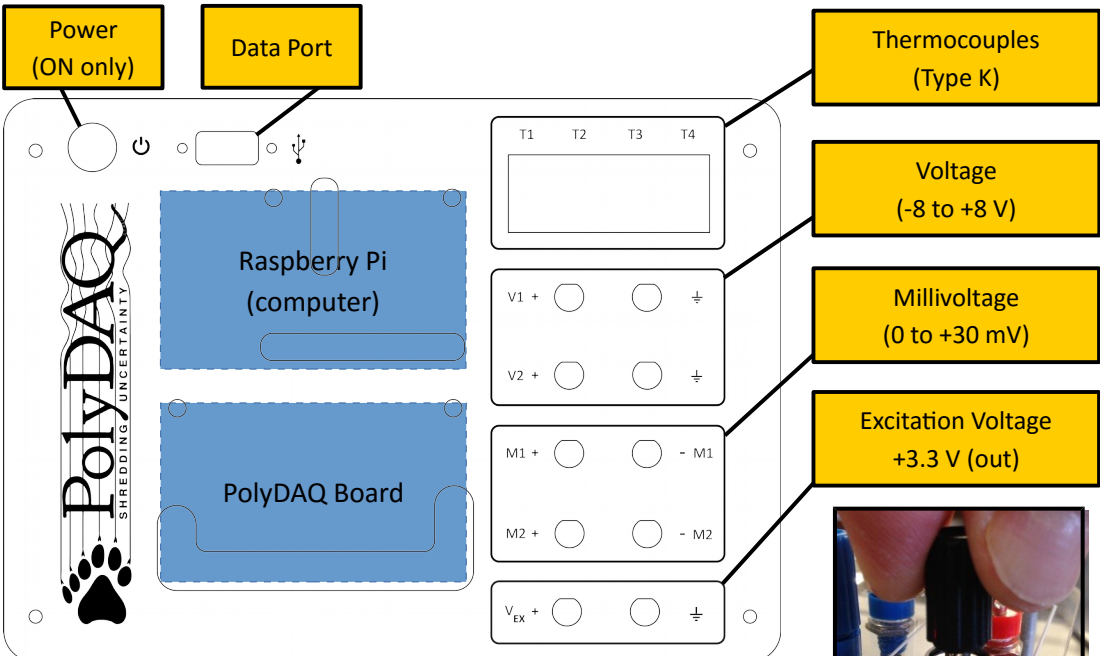


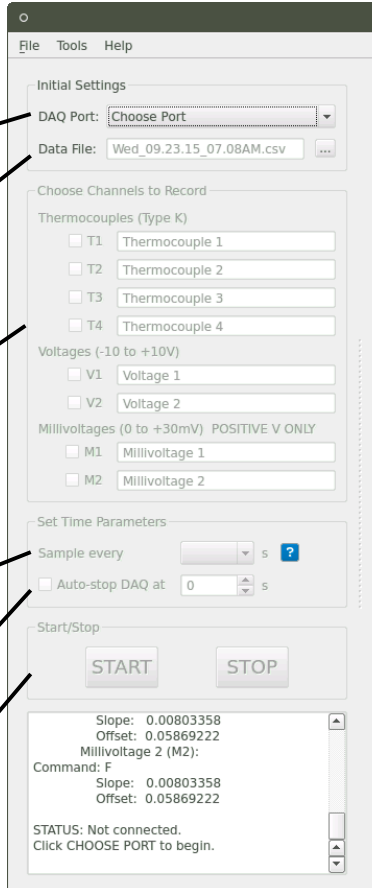
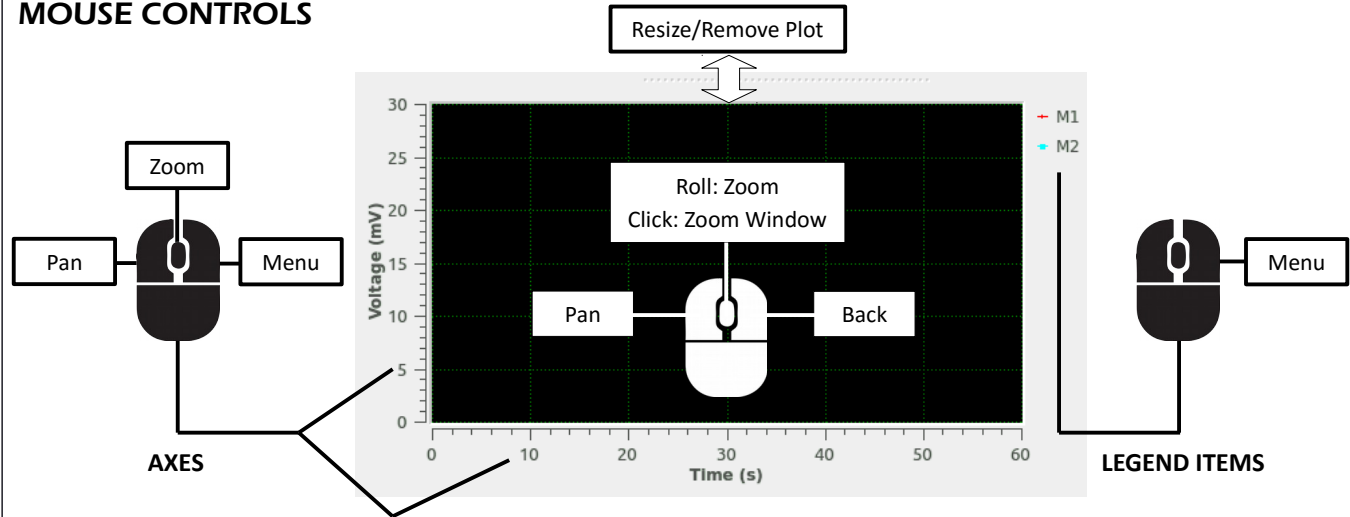





START SYSTEM	Turn monitor on. Press power button  on PolyDAQ (Boots PolyDAQ and the Raspberry Pi).
LOG IN	Login: student Password: gosset
CONNECT SENSORS	<div data-bbox="349 331 1442 982">  </div> <p>Note: Binding posts take banana plugs or bare wires. To connect bare wires, feed through side hole and tighten binding nut as shown at right.</p>
RUN THE CODE	<p>From the Desktop: open PolyDAQ: </p> <p>Choose DAQ port <code>/dev/ttyUSB0</code></p> <ul style="list-style-type: none"> • Connection ERROR? Select Choose Port again and repeat. <p>Rename file (optional). Click the ellipsis  button.</p> <p>Select channels to record.</p> <p>Rename the selected channels (these names will appear in the data file).</p> <p>Set the sample rate. NOTE: the minimum sample rate is about 0.005s per sample for each channel. Click the information button for details.</p> <p>OPTIONAL: Select and set an auto-stop time.</p> <p>START/STOP the data acquisition.</p> <div data-bbox="1104 1108 1474 1990">  </div>

PLOT NAVIGATION AND MOUSE CONTROLS



[Click the **Help** menu for more details]

RETRIEVE DATA FILES	<p>Data files are stored on the Desktop in the PolyDAQ_Data_Files folder. The files are the type comma-separated values (.csv).</p> <p>To retrieve: copy files a thumb drive via the USB  port, or e-mail the file.</p>
OPEN FILE	<p>Excel will open .csv files automatically. If the file is not visible, choose All Files in the File Open menu.</p> <p>For other programs like LibreCalc, the software may ask you the format of the file. Select Comma-Delimited as the type.</p>
SAVE FILE AS...	<p>When saving your file within Excel, be sure to change the file type to Excel Workbook (.xlsx).</p> <p>In LibreOffice, change the file type to ODF Spreadsheet (.ods).</p>
SYSTEM SHUTDOWN	<p>Do NOT perform a “hard” shutdown on the system! It can corrupt the Pi’s operating system.</p> <p>To properly shut down: select Shutdown from the Power button  the top right corner of the desktop screen. Turn monitor off.</p> <p>Or, to log out: select Switch User  at the top right corner of the desktop screen. Select Log Out.</p>

PolyDAQ™ is a computerized data acquisition (DAQ) system designed and fabricated in the Cal Poly Mechanical Engineering department. The hardware was designed by Dr. John Ridgely, and is similar to hardware you may be designing in your Mechatronics courses. The software was written by Dr. Glen Thorncroft using the Python programming language, and is installed on a Raspberry Pi running the Ubuntu MATE operating system.