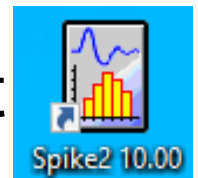


Spike2 Force Plate Training Document

Norman Dang – 2024



Setting Up Spike2

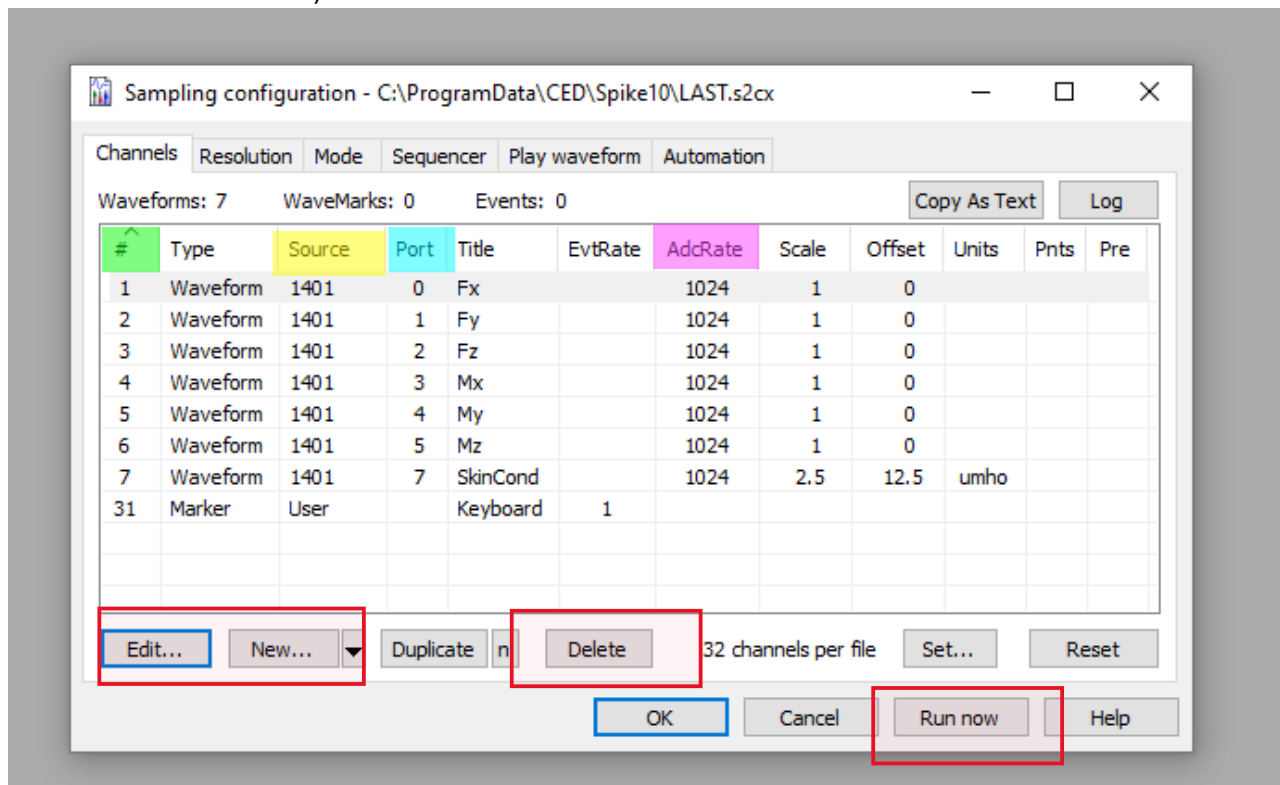
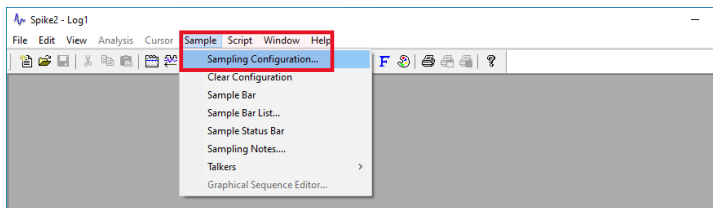
1. Open the Spike2 Application

- *Basic Spike2 Operation tutorial can be accessed through “Getting Started” in the “Help” drop-down menu from the toolbar.



2. Configuration Setup – Sampling Data

- Before sampling data can be performed, a sampling configuration must be created/loaded.
- Access the Sample Configuration Menu through the “Sample” drop-down menu.
- Set up the Sample Configuration as needed (Double-click channels to edit)
 - # - Channel Number
 - Source – Data Source (CED 1401Data Acquisition Interface)
 - Port – Channel on CED 1401
 - AddRate – Sampling Rate



3. Creating New Channels/Editing Existing Channels

- A new channel can be created by clicking New or an existing channel can be edited by selecting the channel and clicking Edit.

- Input

- Desired Channel Number

- Corresponding 1401 Port

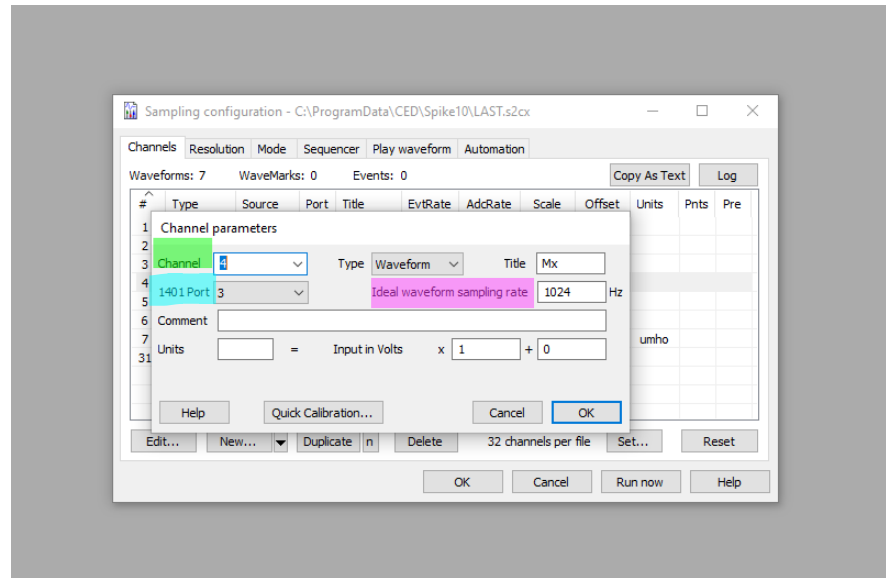
- Title

- Sampling Rate

- Click OK.

4. Save Configuration file.

- File → Save configuration as...



Hardware Setup

- Cable Check

- CED 1401

- Power Cable

- Usb Cable to Computer

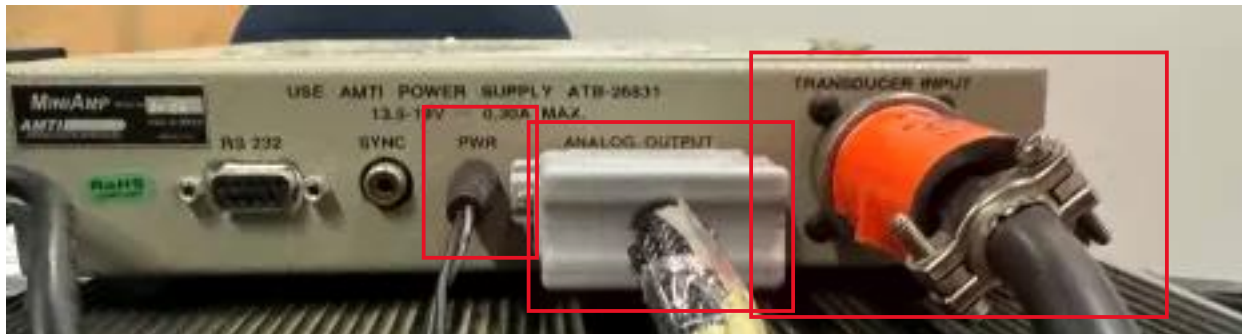


- ADC Inputs (These are the Channel/Ports in Spike2)

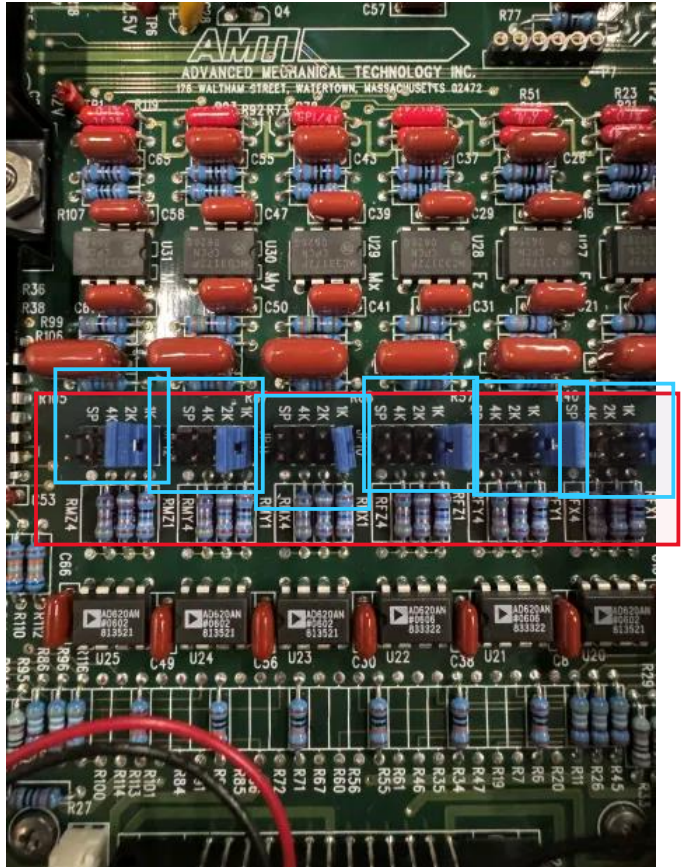
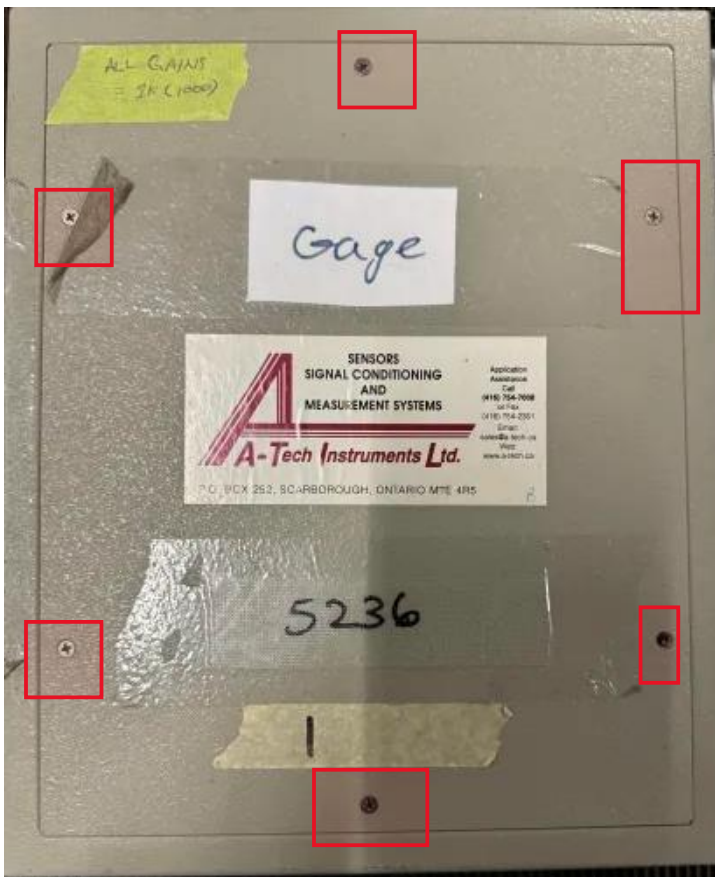
- Amplifier Analog Output Cable
- GSR



- AMTI Amplifier
 - Power Cable
 - Transducer Input Cable from Forceplate
 - Analog Output Cable to CED 1401



- Amplifier Amplification Magnitude Check (If previously altered or it needs to be changed)
 - Unscrew the 6 screws from the top plate of the amplifier to reveal the PCB.
 - Locate Sampling Rate pins and check if it is set to correct sampling rate.
 - Move blue connector to desired amplification magnitude. (1K/2K/4K/SP)

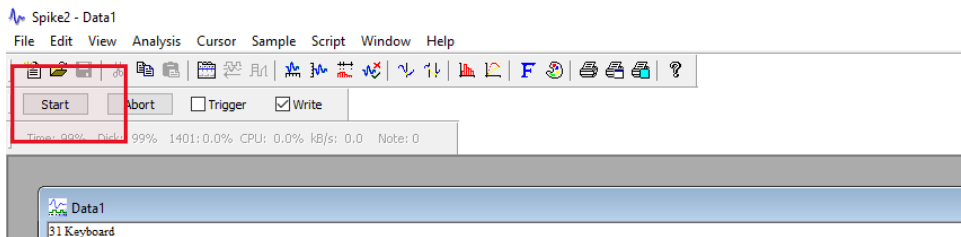


- Additional Equipment Check if necessary (GSR, etc...)

Collecting Data Set

See Data Collection SOP for Reference

1. Turn on necessary equipment and perform equipment check (Cables, probes, etc...)
 - Zero Force Plate
 - Set up Screen if needed, etc...
2. Load desired configuration file.
 - File → Load Configuration.
 - Double check configuration is correct.
 - Click Run Now
3. Have participant step onto the Force Plate and give them the relevant instructions.
4. Start Data Collection → Click Start.



5. Once Data has been collected, save/export data.

