INSTRUCTIONS FOR CALIBRATING THE DUAL RANGE FORCE SENSOR

- Please do not remove this sheet from the table.
- Follow these instructions only if you open a Logger Pro file which involves measuring forces using a *Dual Range* Force Sensor.
- You need to follow this calibration procedure before you start the experiment.
- 1.1 Follow the instructions below to calibrate the *Dual Range* Force Sensor (FS).

1.1.1 Open the Logger Pro file that you will be working with. **Remember, the calibration needs to be done only if the file uses a Dual Range Force Sensor**.

- 1.1.2 Make sure a Dual Range FS is connected to CH 1 (or CH 2) of the *LabQuest* interface box.
- 1.1.3 On the Logger Pro main window, click on the *LabQuest* Set Up Sensors icon. See Figure 1.



Figure 1

1.1.4 In the window that pops open you should be able to see the icon of the Dual Range FS on **CH 1** (or **CH 2**). Click on the black triangle of that icon. A menu pops up. See Figure 2.

🖞 Logger Pro - Untitled						
File Edit Experiment Data Analyze Insert Options Page Help						
🔀 LabQuest: 1						
Analog Sensors OH1 Dual Range Force				DIG/SONIC1	Digital Sensors	
	Accelerometer	-0.10 N	Calibrate Sensor Info	DIG/SONIC2	CHEM-POL	
	3-Axis Accelerometer (X) 3D-BTA		Zero Reverse Direction		Digital Control Unit DCU-BTD	
	3-Axis Accelerometer (Y) 3D-BTA	_	Choose Sensor Remove Sensor		Drop Counter VDC-BTD	
	3-Axis Accelerometer (Z) 3D-BTA	CH4	Current Units: N	Device Info LabQuest 1.7	Cart ENC-BTD	
37	30V Voltage (+/-30V) 30V-BTA	Euoction Generator	Ib Configure >	DAQ OS: 1.91 Battery Status: OK Serial Number: 08-39-030617	Heat Pulser HP-BTD	
-	Ammonium ISE NH4-BTA	Power Amplifier	Microphone Configure >		Linear Position Sensor DIFF-OEK	
	Anemometer ANM-BTA		Help		Motion Detector MD-BTD	
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Figure 2

1.1.1 Remove all strings and weights from the hook of the Dual Range FS attached to CH 1 (or CH 2) and hold it vertically. **There must be nothing suspended from its hook: no masses, no pulley, nothing**. Click on **Zero**.

1.2 You are done with calibrating the Dual Range Force Sensor. You may now return to your experiment.

