

## Experiment S-5

# Sound Levels

### Objective

To study the sound levels of:

- different musical instruments
- your voice

### Description




In this experiment you will measure the sound levels of musical instruments through Panda's sound sensor. You will also measure sound levels while whispering, talking and shouting.

### You will need:

- One or more musical instruments
- A recorder (as in the picture) - included in Panda's Accessories kit



## Instructions

- Observe your NeuLog Panda and check that the **dB** icon appears on the right side. If the **Arb** icon appears, click on it to change it to **dB**.
- Take the musical instrument and produce a low sound level. What value do you see? \_\_\_\_\_
- Take the musical instrument and produce a high sound level. What value do you see? \_\_\_\_\_
- Change the levels of sound in other Panda modes:
  - Column mode 
  - Graph mode 
  - Gauge mode 
- Repeat the measurement with another musical instrument (alternatively, clap your hands). The musical instrument is: \_\_\_\_\_ . Low level value: \_\_\_\_\_ High level Value: \_\_\_\_\_
- Repeat the measurement whispering \_\_\_\_\_ talking \_\_\_\_\_ shouting \_\_\_\_\_ (write the value in each space).
- Could you get measurements close to 40 dB? \_\_\_\_\_
- Could you get measurements close to 100 dB? \_\_\_\_\_

