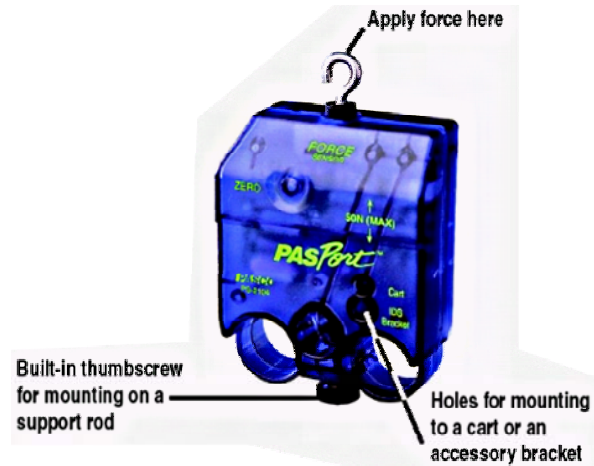


Force

The Force Sensor measures force (a pull or a push) in newtons (N).

Materials List


- 1: Xplorer Datalogger (PS-2000)
- 1: Force Sensor (PS-2104)
- handle or mass






Site Selection

- Sensor range is up to ± 50 N with 1% accuracy. *It is equipped with over-limit protection.*
- ➡ Always tare (zero) with the sensor in the orientation used during the experiment.
- Masses between 200-1000g give the best results.

Sample Preparation

1. Press  to turn on the datalogger and attach the force sensor.
2. Without any force applied, position the sensor in the orientation to be used for sampling.
3. Press the 'Zero' button to tare the output to zero newtons before each use.

Measurement & Recording

1. To use as a hand-held device, put two fingers of your non-dominant hand through the two holes on one end of the sensor. (Or, mount the sensor by securing the thumbscrew.)
2. Grasp the handle with your other hand (or attach the mass) and pull to apply a force.
3. Press  to start logging data; wait 60 seconds; press  to stop logging data.
4. Record the force reading in newtons (N).
5. Press  to turn off the datalogger.

Clean-up & Completion

1. Unplug the sensor from the datalogger and detach the handle (or mass).
2. Replace items in the original storage bag(s).