Instruction Sheet: Force Dual Range

The force sensor must be used in conjunction with a Logbook datalogger. It can be used as a balance as well as a force sensor.

The functions of the force dual range sensor:

- This version of the sensor has two ranges; ±8N and ±50N.

- You can switch between these using the "range" button on the sensor. The LED light shows which range has been selected.

- The force sensor attachment pack (S1642) includes hooks and springs that enable the force sensor to be suspended and used to show oscillations.

How to setup the force sensor in Logbook Graphing using a Logbook datalogger:

- Plug the force sensor into one of the channels on the datalogger.

- Connect the datalogger to the PC via USB and open Logbook Graphing.

- A meter screen will appear and the force sensor readings will be displayed as one of the channels.

- To zero the force sensor, hold the "Tare" button on the sensor for approximately 2 seconds and then release. The meter on Logbook Graphing will now be 0N.

- There is an "invert" button on the meter screen in Logbook Graphing which can be used to switch between the + or – figure.

- A log can be started by using either the "Quick Start a Log" or the "record live" function. For information on how to use the "record live" function see the Logbook Graphing instructions manual downloadable from www.sciencescope.uk.