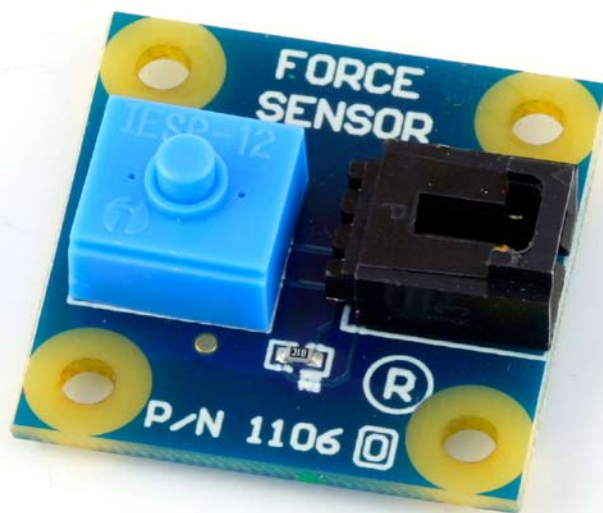


Force Sensor



The Force Sensor is intended as a user input device (i.e recognizing that someone is pushing a button). It is not accurate enough to be used as a weight measurement device.

Designed For Use With:

- PhidgetInterfaceKit 8/8/8
- PhidgetTextLCD with InterfaceKit 8/8/8

Examples:

You will find program examples in the download section of www.phidgets.com

Getting Started

Installing the hardware

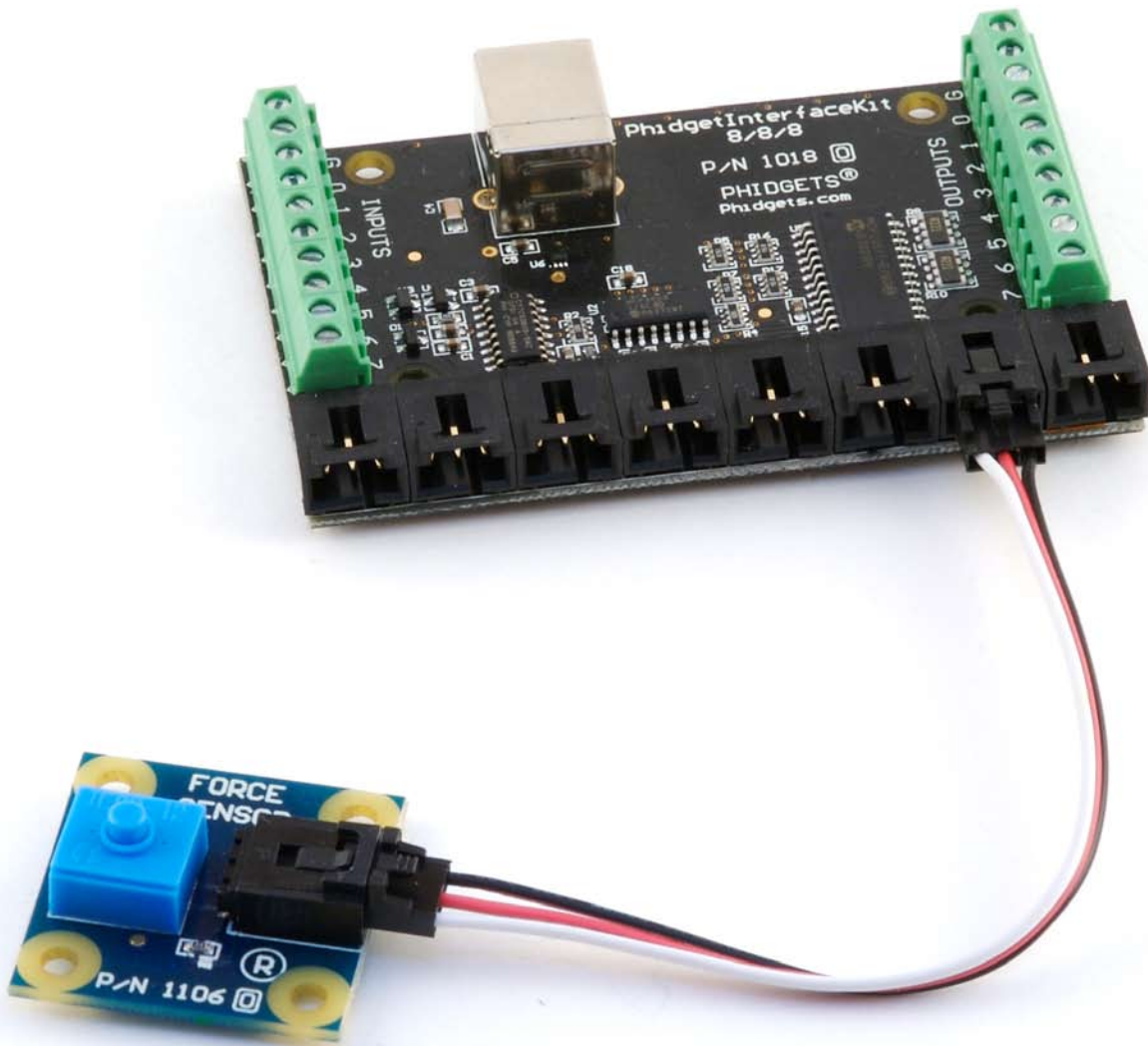
The Kit contains:

- A Force Sensor
- A Sensor Cable

You will also need:

- A PhidgetInterfaceKit 8/8/8 or a PhidgetTextLCD
- A USB Cable

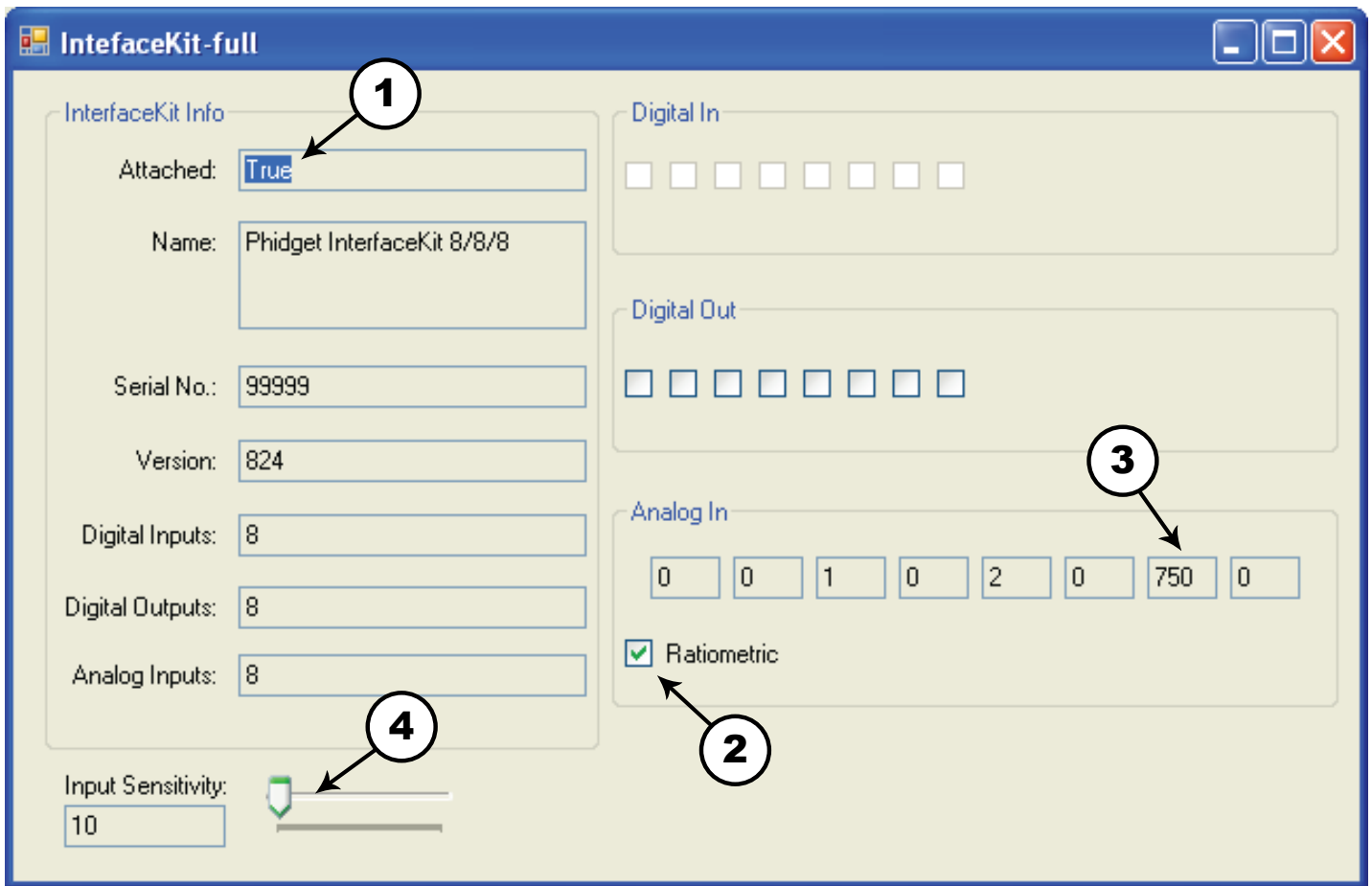
Connecting all the pieces



Connect the Force Sensor to an Analog Input on the PhidgetInterfaceKit 8/8/8 board using the sensor cable.

Testing the Force Sensor using Windows

Run the Program **InterfaceKit-full**.



1. Run the program **InterfaceKit-full** and check that the box labelled Attached contains the word True.
2. Make sure that the Ratiometric box is Ticked.
3. Push on the blue button on the Force Sensor. The number in the Analog In box will increase as you push harder. When you release the button, the number will get back to a number between 0 and the Input Sensivity value.
4. You can adjust the input sensitivity by moving the slider pointer.

Technical Information

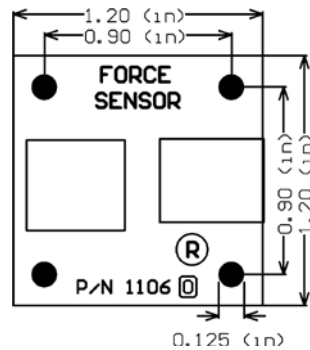
With no force applied this sensor will read zero. As force increases on the circular button the value increases towards 1000. It is not accurate enough to be used as a weight measurement device. The sensor is not designed to have force applied constantly over time.

Device Specifications

Current Consumption	500uA MAX
Output Impedance	10K ohms
Maximum load	4.0kgf
Recommended load	1.5kgf

Mechanical Drawing

1:1 scale



Product History

Date	Product Revision	Comment
June 2002	n/a	Product Release
August 2004	n/a	Analog input connector changed from stereo jack to 3-pin Molex