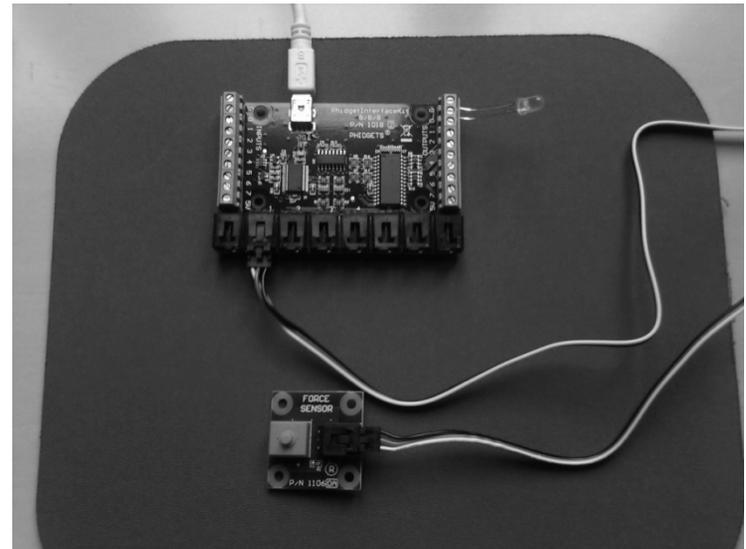


Phidget Interface Kit

1. Download the Phidgets software for your OS from www.phidgets.com/drivers.php.
2. Install it. Choose 32 bit or 64 bit version to match your OS and the version of Java you installed
3. Download the phidget.jar file from www.phidgets.com/programming_resources.php.
4. Unzip it to someplace where you can find it again.
5. Open you Phidget kit and find
 1. USB cable to connect the interface board to your computer
 2. Interface board (1018)
 3. Force sensor (1106) with its cable
 4. A green LE
6. Connect them as in the image
 - USB from laptop to interface board
 - Force sensor to Analog In1
 - LED wired between GND and Digital Out 0
 - Short wire in GND, long in Digital Out 0
 - Use the screwdriver for the LE



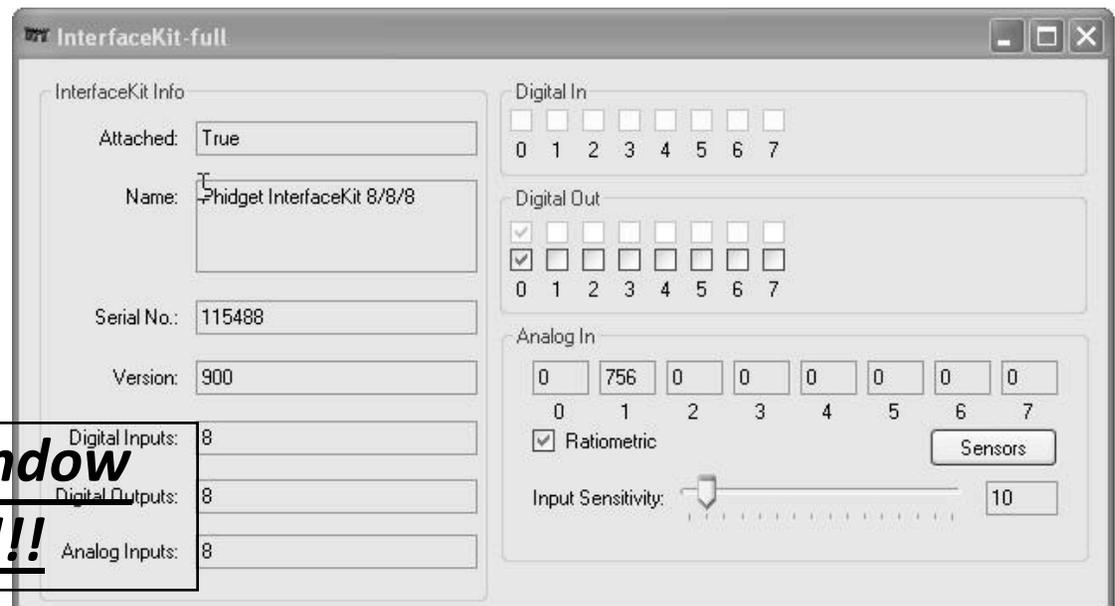
Courtesy of V. Judson Harward. Used with permission.

Phidget Interface Kit, 2

- If you have installed the Phidget software, you should see a Phidget icon in your taskbar:



- Click it. It should bring up the Phidget test application
 - If it brings up the Phidget control panel, click the General tab and then double click the Phidget interface kit device to bring up the test app
- Press the Phidget force sensor button. Watch the reading change.
- Click Digital Out box 0
- LED should light up

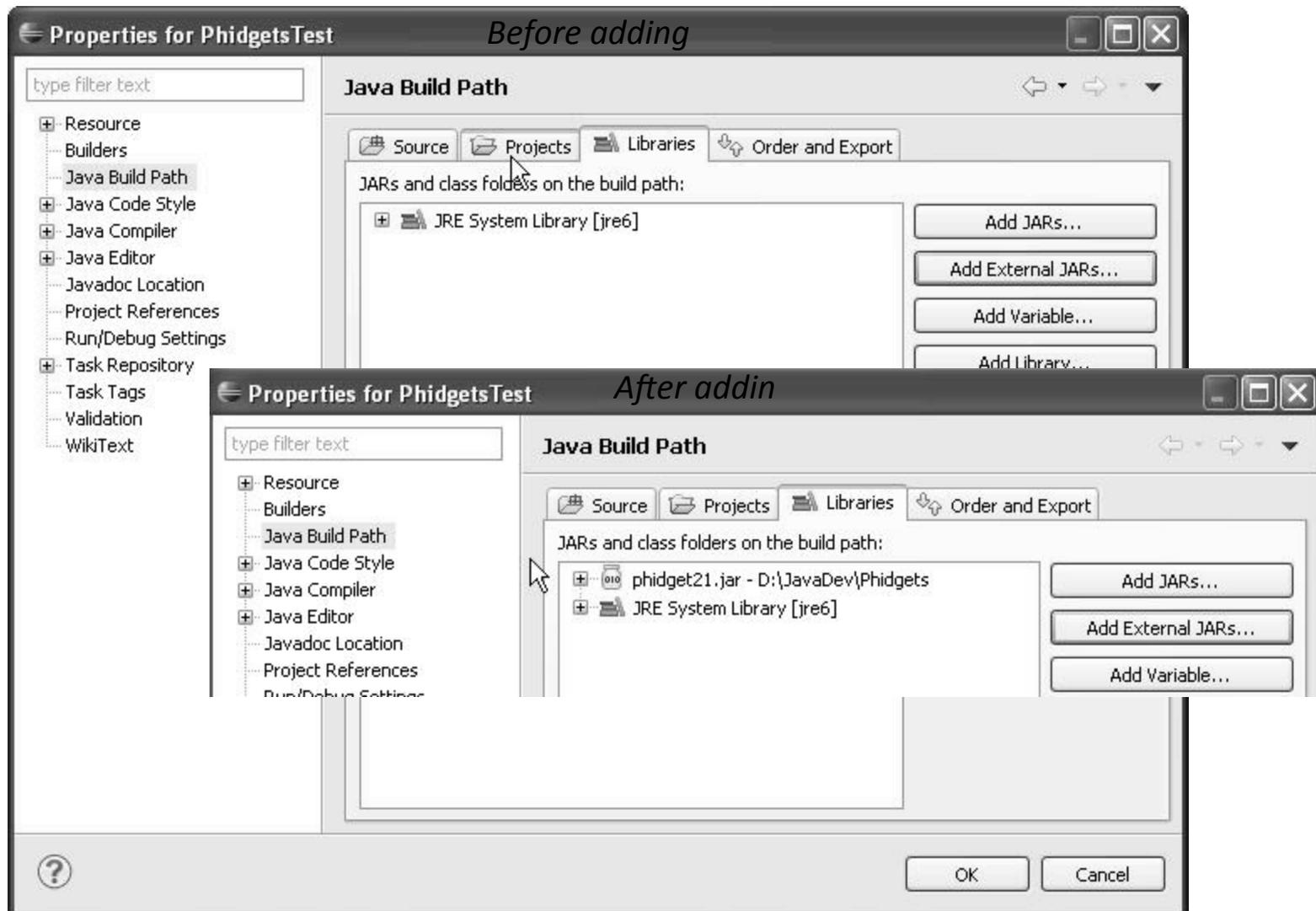


You must close this window
when using Eclipse!!!

Phidgets and Java

- Download PressureController.java and compile it in a new project
 - You get errors because Eclipse can't find the Phidget.jar file, the library that tells Java how to communicate with Phidgets
- Open the Java Properties/Java Build Path popup by right clicking on the project
- Click "Add External Jars..." and navigate to where you unzipped the phidget21.jar file
- Select it and click Open, and then O
 - Next slide shows before and after shots
 - Errors will disappear from java files
- Run PressureController

Phidgets and Java



Courtesy of The Eclipse Foundation. Used with permission.

Phidget21.jar

- Jar file is a Java archive
 - Zip format of compiled (byte code) Java classes
- By placing it in your project, you can use all its classes
- See its documentation (API Reference) for a list of classes and methods. Download from
 - phidgets.com/programming_resources.php
 - Unzip
 - Bookmark it in your browser
- Also look at Java *Getting Started Guid*

Phidgets Javadoc

Phidget - Mozilla Firefox

file:///C:/Users/George/XPSHare/mit100-s11/Phidgets/JavaDoc/javadoc/index.html

Phidget

Overview Package **Class Tree** Deprecated Index Help

PREV CLASS NEXT CLASS

SUMMARY: NESTED | FIELD | CONSTR | METHOD

FRAMES NO FRAMES

DETAIL: FIELD | CONSTR | METHOD

com.phidgets

Class Phidget

java.lang.Object
└─ com.phidgets.Phidget

Direct Known Subclasses:
[AccelerometerPhidget](#), [AdvancedServoPhidget](#), [EncoderPhidget](#), [InterfaceKitPhidget](#), [IRPhidget](#), [LEDPidget](#), [MotorControlPhidget](#), [PHSensorPhidget](#), [RFIDPhidget](#), [ServoPhidget](#), [SpatialPhidget](#), [StepperPhidget](#), [TemperatureSensorPhidget](#), [TextLCDPhidget](#), [TextLEDPidget](#), [WeightSensorPhidget](#)

public class **Phidget**
extends java.lang.Object

This is the base class from which all Phidget device classes derive. Don't create phidget devices directly using this class. Use the specific class for the device that you wish to access.

Version:
2.1.7

Author:
Phidgets Inc.

Field Summary

static int	PHIDCLASS_ACCELEROMETER
static int	PHIDCLASS_ADVANCEDSERVO
static int	PHIDCLASS_ENCODER
static int	PHIDCLASS_INTERFACEKIT
static int	PHIDCLASS_LED
static int	PHIDCLASS_MOTORCONTROL
static int	PHIDCLASS_NOTHING
static int	PHIDCLASS_PHSENSOR

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1.00 / 1.001 / 1.002 Introduction to Computers and Engineering Problem Solving
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