**Analog devices 3 axis accelerometer +/- 5 G**

<http://www.analog.com/en/mems/low-g-accelerometers/adxl325/products/product.html>

Analog devices will sample EVAL-ADXL325Z evaluation boards at no cost, however there is a lead time of several weeks, so you would have to make the request early enough to get the boards here.

**Pressure sensors:**

Digikey has a large variety of small pressure sensors. An example is

<http://search.digikey.com/scripts/DkSearch/dksus.dll?Detail&name=480-2521-ND>

The cost on this particular device is $29 each.

If you use any of the many transducers available through digikey, make sure you select carefully as not all devices are compatible with all fluids. Some are restricted to clean dry gasses and others are capable of dealing with liquids.

**Hall effect sensors**

There are a wide variety of these devices available from Digikey. The device listed below is made by Allegro Microsystems. The cost is low, about $1.75 each.

<http://search.digikey.com/scripts/DkSearch/dksus.dll?Detail&name=620-1028-ND>

If you look at using one of these devices, you will need to select an appropriate package and sensitivity. This one is 2.65 mV/Gause

**Sensor packaging**

One thing to be careful of when you select transducers is not to get a surface mount package. These are quite difficult to deal with and should be avoided.

Examples of surface mount packaging are:

* SOT
* P-SSO
* LPCC
* SOIC
* MLP
* MSOP

**Strain gages**

Strain gages can be used with your 6009 boards if you do appropriate signal amplification, similar to the method used for the thermocouple. Strain gages care generally purchased in packages are 5 or 10 and are available through Omega.com

<http://www.omega.com/ppt/pptsc.asp?ref=SGD_LINEAR1-AXIS&Nav=pree02>

This is an example of a general purpose strain gage, and cost around $49 (plus shipping) for a package of 10.

<http://www.omega.com/toc_asp/subsectionSC.asp?subsection=E02&book=Pressure> shows the complete product line of strain gages that they have available.