AME 21216 –Score Sheet

A4 – Sensor Calibration

Author name or NDID:_____

Lab Section (Day/time): _____

For more details on any of the items below, please refer to the lab handout.

Item and Description	Points Awarded	Possible Points
Technical Writing – Please address all questions from the lab handout in the paragraphs.		3
Table containing RTD voltage, current, and resistance at both temperatures		2
Table containing RTD measured parameters R_0 and α_T with manufacturer's parameters		3
Plot of pressure *P* vs. transducer voltage V_{out}		3
Calibration equation for pressure transducer		2
Sensitivity coefficient for pressure transducer		1
Plot of air speed *u* vs. flow rate *Q* with theoretical curve		4
TOTAL		18

Guidelines for Deliverables

- All figures and tables are properly labeled (i.e. Figure 1, Table 1, etc.) with captions.
- All plots should be made in Matlab. Do NOT use excel to make plots.
- Axes on figures must be labeled with units, and plots with multiple data sets must include a legend.
- Note that any curve fit or theoretical curve must be plotted as a *smooth, continuous* line, and the equation for said curve *must* be included as a numbered equation in the main text with all the variables defined.
- Equations must be numbered, and the variables must be defined (i.e. "where *c* is the speed of sound.").
- Variables should be written in italics.
- Students, please **print and proofread** the hardcopy of your deliverables before you turn it in. Sometimes, equations and figures do not print correctly!