

## AME 21216 –Score Sheet

A4 – Sensor Calibration

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
<b>Technical Writing</b> – Using the correct format, please address all questions from the lab handout in the paragraphs.		3
<b>Table containing RTD voltage, current, and resistance at both temperatures</b>		2
<b>Table containing RTD measured parameters <math>R_0</math> and <math>\alpha_T</math> compared to manufacturer's parameters</b>		3
<b>Plot of pressure <math>P</math> vs. transducer voltage <math>V_{out}</math></b>		3
<b>Calibration equation for pressure transducer</b>		2
<b>Sensitivity coefficient for pressure transducer (check units)</b>		1
<b>Plot of air speed <math>u</math> vs. flow rate <math>Q</math> with theoretical curve</b>		4
<b>TOTAL</b>		18

### Guidelines for Deliverables

- Use a 12 point “serifed” font such as Times New Roman.
- Document should be double-spaced.
- Document should have 1” margins in all directions.
- Page numbers are required centered at bottom of screen.
- Equations must be numbered.
- All variables must be italicized.
- All variables in equations must be defined (i.e. “where  $c$  is the speed of sound”).
- Plots should always have axes clearly labeled with units.
- Plots should always be centered with captions beneath labeled Fig. 1, etc.
- Tables should always be centered with captions above labeled Table 1, etc..
- Captions should be the same font as the rest of the document.
- References should follow the ASME format.  
(<https://www.asme.org/shop/proceedings/conference-publications/references>)