

AME 21216 – Score Sheet

A3 – Thermistor Calibration

NDID#: _____

Lab Section (Day/time): _____

Item and Description	Points Awarded	Possible Points
Technical writing – Please address all questions from the lab handout in the caption and paragraphs. Include any important equations used in your data analysis.		4
A table containing the following parameters with correct units: <ul style="list-style-type: none">• The voltage in ice water V_C.• The voltage in boiling water V_H.• The resistance in ice water R_C.• The resistance in boiling water R_H.• The calibration constant A.• The calibration constant B.		6
A table containing the following parameters with correct units: <ul style="list-style-type: none">• The voltage measured with the thermistor in air V_{Air}.• The resistance of the thermistor in air R_{Air}.• The air temperature T_{Air}.• The voltage measured with the thermistor in your hand V_{Hand}.• The resistance of the thermistor in your hand R_{Hand}.• The temperature in your hand T_{Hand}.		6
TOTAL		16

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 an equations must be defined (i.e. “where c is the speed of sound”).
- Theoretical curves should always be smooth and continuous.
- Measured data should be individual markers. If there are more than 20 measured data points, you connect them or use a continuous line.
- 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..
- **Tables** should have black text on white background with 12 point Times New Roman.
- **Tables** should have the text centered both horizontally and vertically.
- Captions should be the same font as the rest of the document.
- Do NOT use the * symbol to denote multiplication.
- NO TITLES ON GRAPHS

References – Tech memos must include a reference. These can be data sheets from the lab website, articles from the internet, the lab procedure, the textbook, etc. References should follow the ASME format.

(<https://www.asme.org/shop/proceedings/conference-publications/references>)