

AME 40453 – Tech Memo Score Sheet

C2 – Thermostat

NDID#: _____

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

Item and Description	Points Awarded	Possible Points
Technical writing – Using the correct format, address all questions from the lab handout, and include equations from the pre-lab.		5
A table containing the measured and extrapolated parameters from Part I: T_{Air}, T_{max}, heater power q, time constant τ, mc_p, and Ah		6
Two separate plots of the measured temperature and heater power vs. time for the two different set points.		6
A table containing the predicted period and duty cycle of oscillations and values observed in Part II		5
TOTAL		22

Technical Writing

- Include a *brief* summary of the procedure.
- Discuss the results using college-level English.
- Answer the suggested talking points at the end of the lab handout.
- Do *not* write a first-person narrative. Rather, write it as a declaration of objective observations, scientific facts, and logical deductions.

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”).
- 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 be black text on white background with the same font as the rest of the document.**
- Captions should be the same font as the rest of the document.
- NO TITLES ON GRAPHS

References – Tech memos must include at least one reference. These can be data sheets from the lab website, articles from the internet, the textbook, etc. References should follow the ASME format. (<https://www.asme.org/shop/proceedings/conference-publications/references>)