

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, single-paragraph summary of the procedure.
- Discuss the results using college-level English.
- Address 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 with the same font as the rest of the document.
- 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”).
- **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.
- Theoretical curves should always be smooth and continuous.
- 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 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>)