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| --- | --- |
| Experiment number | 8a |
| Experiment name | Testing of an Evacuated tube collector |
| Group | 9 |
| Roll numbers | 16D170027, 16D170029, 16d170031 |
| Date on which experiment was performed | 22/01/2019 |

*Make sure to attach the table of the readings signed by the course instructor, TA, or lab technician.*

1. Assumptions and formulae [1 mark]
2. Sample calculation [3 marks]
3. Table of results: calculated values and graphs [2 marks]

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Time | Vin(mV) | Tin | Vout(mV) | Tout | Tamb | Ig | Id | Id(W/m2) |
| 2:28 | 1.22 | 30.5801 | 1.72 | 42.5648 | 29.8 | 682.7 | 1.19 | 185.6 |
| 2:38 | 1.349 | 33.7002 | 1.648 | 40.8568 | 30.2 | 658.3 | 1.153 | 179.9 |
| 2:48 | 1.354 | 33.8208 | 1.613 | 40.0244 | 30.8 | 647.9 | 1.111 | 173.3 |
| 2:58 | 1.12 | 28.1475 | 1.55 | 38.5225 | 30.1 | 630.1 | 1.096 | 171 |
| 3:08 | 1.186 | 29.7544 | 1.548 | 38.4748 | 30.2 | 609 | 1.073 | 167.4 |

1. Key observations, discussion (including answers to questions in the manual), and conclusion [2 marks]
2. Your suggestions to improve the overall experiment including the set-up, the manual, etc. [1 mark]
3. Enclose signed table of readings [1 mark]