**Tabel 4.1** Data Pengujian Arus WCS2801

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| TeganganSuplai (V) | IArduino(A) | I ClampMeter (A) | I Teori(A)  | R(Ohm)  | %Error Teori  | %Error ClampMeter |
| 12  | 0.125  | 0.124  | 0.121  | 99.5  | 3.646  | 0.806 |
| 12  | 0.141  | 0.14  | 0.138  | 86.8  | 1.990  | 0.714 |
| 12  | 0.143  | 0.142  | 0.140  | 85.8  | 2.245  | 0.704 |
| 12  | 0.149  | 0.148  | 0.143  | 84  | 4.300  | 0.676 |
| 12  | 0.155  | 0.153  | 0.148  | 80.9  | 4.496  | 1.307 |
| 12  | 0.158  | 0.153  | 0.151  | 79.3  | 4.412  | 3.268 |
| 12  | 0.154  | 0.153  | 0.152  | 78.8  | 1.127  | 0.654 |
| 12  | 0.158  | 0.158  | 0.155  | 77.5  | 2.042  | 0.000 |
| 12  | 0.161  | 0.16  | 0.157  | 76.4  | 2.503  | 0.625 |
| 12  | 0.165  | 0.163  | 0.161  | 74.6  | 2.575  | 1.227 |
| 12  | 0.172  | 0.166  | 0.169  | 71.1  | 1.910  | 3.614 |
| 12  | 0.174  | 0.172  | 0.177  | 67.9  | 1.545  | 1.163 |
| 12  | 0.196  | 0.194  | 0.190  | 63.2  | 3.227  | 1.031 |
| 12  | 0.206  | 0.207  | 0.199  | 60.4  | 3.687  | 0.483 |
| 12  | 0.212  | 0.214  | 0.206  | 58.3  | 2.997  | 0.935 |
| 12  | 0.218  | 0.222  | 0.212  | 56.6  | 2.823  | 1.802 |
| 12  | 0.23  | 0.235  | 0.224  | 53.6  | 2.733  | 2.128 |
| 12  | 0.236  | 0.239  | 0.228  | 52.6  | 3.447  | 1.255 |
| 12  | 0.251  | 0.259  | 0.247  | 48.6  | 1.655  | 3.089 |
| 12  | 0.267  | 0.276  | 0.260  | 46.2  | 2.795  | 3.261 |
| 12  | 0.277  | 0.286  | 0.272  | 44.1  | 1.798  | 3.147 |
| 12  | 0.286  | 0.296  | 0.284  | 42.2  | 0.577  | 3.378 |
| 12  | 0.297  | 0.305  | 0.294  | 40.8  | 0.980  | 2.623 |
| 12  | 0.317  | 0.314  | 0.314  | 38.2  | 0.912  | 0.955 |
| 12  | 0.321  | 0.323  | 0.319  | 37.6  | 0.580  | 0.619 |
| 12  | 0.335  | 0.337  | 0.332  | 36.1  | 0.779  | 0.593 |
| 12  | 0.35  | 0.35  | 0.349  | 34.4  | 0.333  | 0.000 |
| 12  | 0.366  | 0.365  | 0.366  | 32.8  | 0.040  | 0.274 |
| 12  | 0.384  | 0.379  | 0.386  | 31.1  | 0.480  | 1.319 |
| 12  | 0.405  | 0.408  | 0.407  | 29.5  | 0.438  | 0.735 |
| 12  | 0.429  | 0.432  | 0.426  | 28.2  | 0.815  | 0.694 |
| 12  | 0.442  | 0.446  | 0.443  | 27.1  | 0.182  | 0.897 |
| 12  | 0.453  | 0.455  | 0.455  | 26.4  | 0.340  | 0.440 |
| 12  | 0.483  | 0.485  | 0.476  | 25.2  | 1.430  | 0.412 |
| 12  | 0.518  | 0.524  | 0.522  | 23  | 0.717  | 1.145 |
| 12  | 0.561  | 0.563  | 0.556  | 21.6  | 0.980  | 0.355 |
| 12  | 0.659  | 0.654  | 0.635  | 18.9  | 3.792  | 0.765 |
| Maksimal  | 4.49  | 3.614 |  |  |  |  |
| Minimal  | 0.04  | 0 |  |  |  |  |
| Rata-Rata  | 1.93  | 1.273 |  |  |  |  |

**Tabel 4.2** Tabel Data Pengujian Pembacaan Iradiasi Alat

|  |  |  |  |
| --- | --- | --- | --- |
| Waktu  | Irr Arduino(W/m2) | Irr SM-206(W/m2)  | % Error |
| 05:46:00  | 2.58  | 2.4  | 7.500 |
| 06:00:00  | 8.56  | 8.3  | 3.133 |
| 06:30:00  | 27.27  | 26.4  | 3.295 |
| 07:00:00  | 34.16  | 32.7  | 4.465 |
| 07:30:00  | 78.17  | 77.9  | 0.347 |
| 08:00:00  | 98.38  | 99.4  | 1.026 |
| 08:30:00  | 129.25  | 128.7  | 0.427 |
| 09:00:00  | 188.76  | 190.7  | 1.017 |
| 09:30:00  | 279.51  | 274.1  | 1.974 |
| 10:00:00  | 494.18  | 490.6  | 0.730 |
| 10:30:00  | 378.7  | 375.3  | 0.906 |
| 11:00:00  | 487.82  | 488.5  | 0.139 |
| 11:30:00  | 456.48  | 452.4  | 0.902 |
| 12:00:00  | 598.73  | 597.3  | 0.239 |
| 12:30:00  | 594.17  | 596.7  | 0.424 |
| 13:00:00  | 499.66  | 501.3  | 0.327 |
| 13:30:00  | 441.63  | 440.7  | 0.211 |
| 14:00:00  | 707.5  | 703.4  | 0.583 |
| 14:30:00  | 770.14  | 768.3  | 0.239 |
| 15:00:00  | 457  | 459.4  | 0.522 |
| 15:30:00  | 441.48  | 436.7  | 1.095 |
| 16:00:00  | 268.84  | 266.7  | 0.802 |
| 16:30:00  | 287.15  | 289.3  | 0.743 |
| 17:00:00  | 62.92  | 65.4  | 3.792 |
| 17:30:00  | 28.08  | 25.8  | 8.837 |
| Maksimal  | 8.837 |  |  |
| Minimal  | 0.14 |  |  |
| Rata-Rata  | 1.747 |  |  |