**Tabel 4.1** Data Pengujian Arus WCS2801

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Tegangan Suplai (V) | IArduino (A) | I Clamp Meter (A) | I Teori (A) | R(Ohm) | %Error Teori | %Error Clamp Meter |
| 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 |  |  |