**Experiment 2: Current measurement**

Devices used:

1. Calibrator “Burster praezisionsmesstechnik” (Praezisions – Widerstands – Dekade Typ 4107)
2. Triple power supply “HAMEG Instruments HM7042-5”
3. TRMS Multimeter “Metrahit Tech” (used as an ammeter)

Ub = 5.0 V

Rsum ≈ 254.77 Ω

Isum = Ub/Rsum ≈ 19.63 mA­­

Relative error = ((I calculated – I measured) / I calculated) \* 100%

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | A1-A2 | C1-C2 | D1-D2 | E1-E2 | F1-F2 |
| Calculated | 19.63 mA | 2.27 mA | 5 mA | 5 mA | 7.35 mA |
| Measured | 19.61 mA | 2.272 mA | 5.030 mA | 5.030 mA | 7.359 mA |
| Relative error | 0.102% | 0.088% | 0.6% | 0.6% | 0.122% |