

Vorname 44

Tutor: Tim

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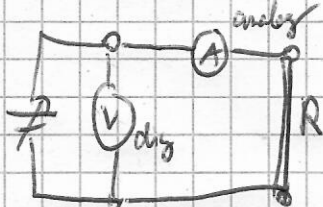
Vorbereitung

1) Draht-Dicke:

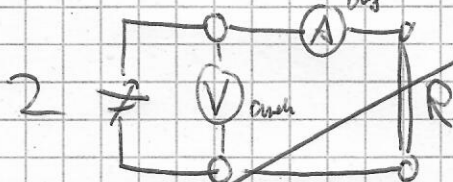
$0,5 \pm 0,01 \text{ mm}$

(Messschleife)

2) Schaltung 1



$l = 52 \text{ cm} \pm 0,5 \text{ cm}$



$$V = 1,56 \text{ V} \pm 0,71 \text{ V} \pm 4,06 \text{ V} \pm$$

$$I = 1,4 \text{ A} \pm 0,6 \text{ A} \pm 0,83 \text{ A} \pm$$

(Schwankt stark)

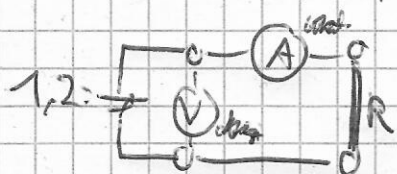
analog: PeakTo 3260

digital: Unit 51

$$V = 1,1 \text{ V} \pm$$

$$I = 1,62 \text{ A} \pm$$

Range: dig V: 2V anal V: 2,5V
dig I: 2A anal A: 1000mA

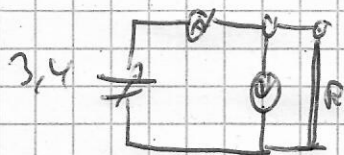


$$\text{dig } V = 1,53 \text{ V}$$

$$\text{an } I = 0,52 \text{ A}$$

$$\text{anal. } V = 1,45 \text{ V}$$

$$\text{dig } I = 1,20 \text{ A}$$

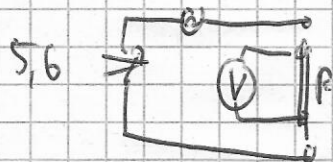


$$\text{dig } V = 1,15 \text{ V} \pm 0,99 \text{ V}$$

$$\text{anal. } I = 0,6 \text{ A}$$

$$\text{anal. } V = 1,00 \text{ V}$$

$$\text{dig } I = 1,6 \text{ A}$$



$$\text{dig } V = 0,23 \text{ V}$$

$$\text{anal. } I = 0,88 \text{ A}$$

$$\text{anal. } V = 0,3 \text{ V}$$

$$\text{dig } I = 1,15 \text{ A}$$

$l = 36,0(5) \text{ cm}$

3) l variieren

dig. V_{eff}		0,330	0,296	0,264	0,239	0,206
anal. I_{eff}	1A	1A	1A	1	1	1
l (cm)	36,0(5)	44,5(5)	39,5(5)	35,0(5)	31,5(5)	28,5(5)

V	0,192	0,187	0,169	0,152	0,115	0,097	0,135
l	25,5(5)	23,0(5)	20,5(5)	16,5(5)	14,5(5)	12,3(5)	16,5(5)

V	0,128
l	16,5(5)

21.02.23

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