

EXPERIMENT: 1.4

EXAMINATION OF SERIAL CONNECTED RESISTORS

EXPERIMENTAL PROCEDURE:

Plug the Y-0016/003 module. Make the circuit connections like in figure 4.

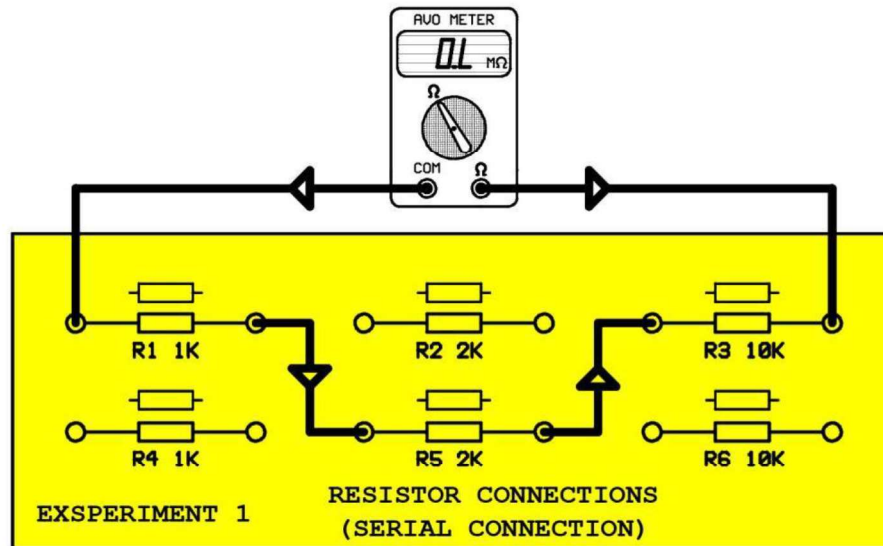


Figure 4

1- Write the value of resistance displayed by Ohmmeter.

2- $R_1=1K$, $R_5=2K$ and $R_3=10K$. So calculate the total resistance (R).

3- Compare the value you calculated and the value displayed by Ohmmeter. Why is there a difference?

NOTE: You can do new experiments by making different serial connections with the six resistors in the module.

EXPERIMENT: 1.5

EXAMINATION OF PARALLEL CONNECTED RESISTORS

EXPERIMENTAL PROCEDURE:

Plug the Y-0016/003 module. Make the circuit connections as in figure 5

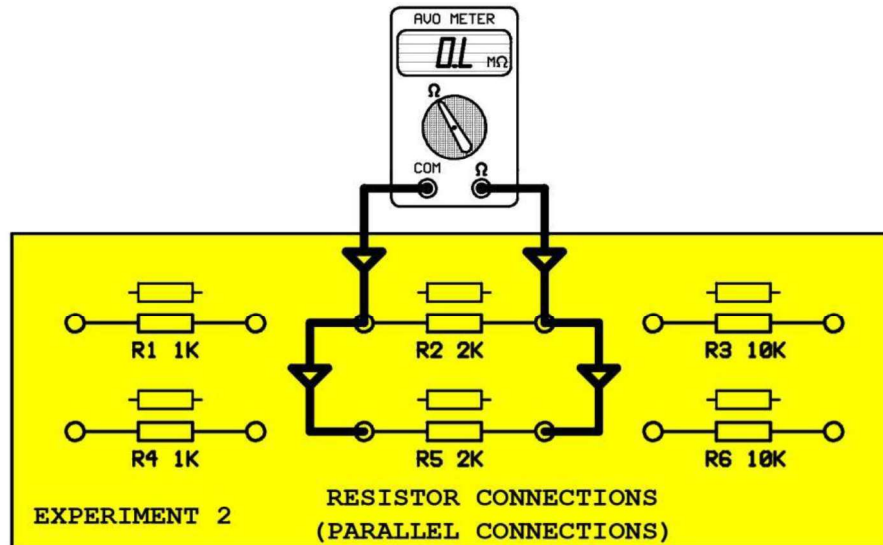


Figure 5

1- Write the resistance value displayed by the Ohmmeter.

2- $R_2=2K$ and $R_5=2K$, calculate the total resistance (R).

3- Compare the value you calculated and the value Ohmmeter displayed. Why is there a difference?

NOTE: You can do new experiments by making different parallel connections with the six resistors in the module.

EXPERIMENT: 1.6

EXAMINATION OF MIXED CONNECTED RESISTORS

EXPERIMENTAL PROCEDURE:

Plug the Y-0016/003 module. Make the circuit connections as in figure 6.

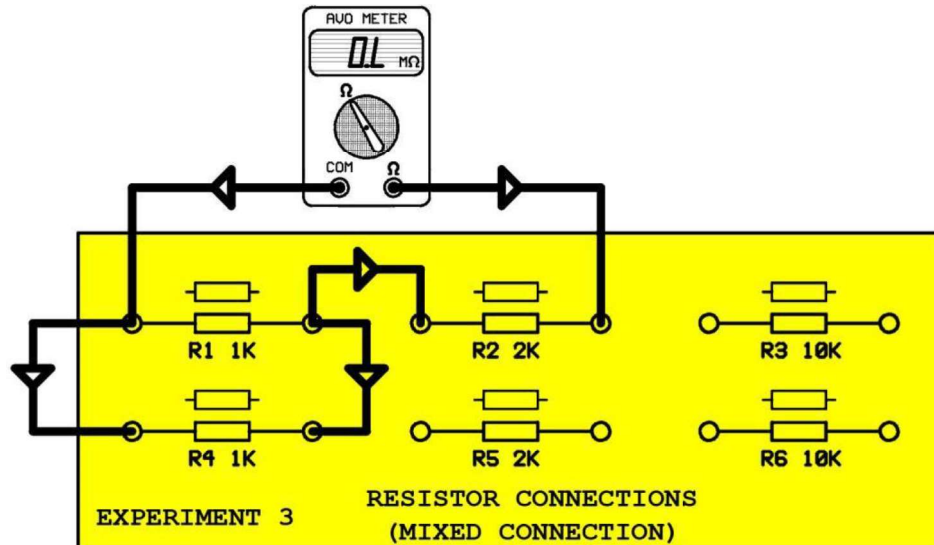


Figure 6

1- Write the resistance value displayed by Ohmmeter.

2- $R_1=1K$, $R_4=1K$ and $R_2=2K$. Calculate the total resistance of circuit.

3- Compare the value you calculated and the value Ohmmeter displayed. Why is there a difference?

NOTE: You can do new experiments by making different mixed connections with the six resistors in the module.