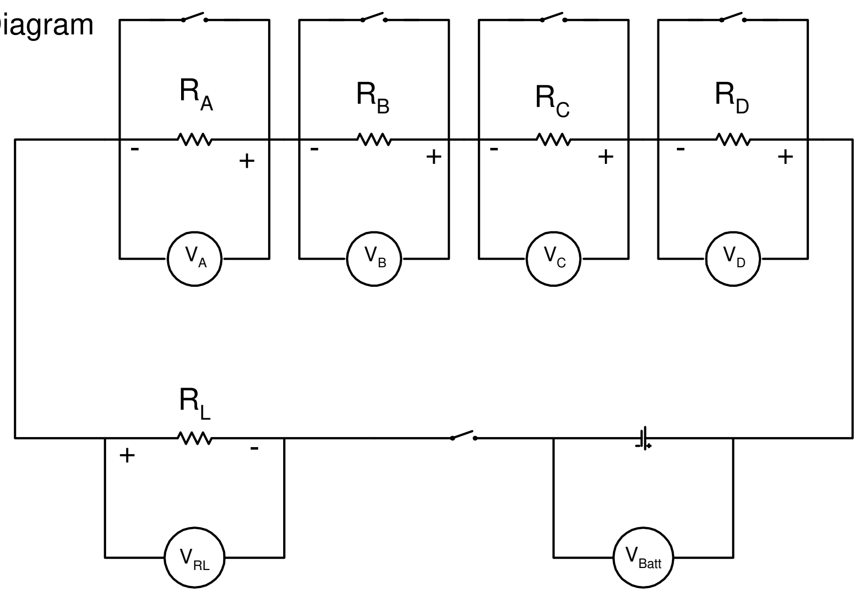
Figure 1 is the circuit card layout inside the thermometer box. The circuit is also shown, schematically, below. The dotted lines in Figure 1 indicate voltage measurement. Not all the lines are connected, in Figure 1, but labels that are alike are connected. (i.e., $-V_A$ is connected to all the $-V_A$'s shown in the figure. Similarly $-V_B$ is connected to all the $-V_B$'s shown in the figure, etc.)

Schematic Circuit Diagram



The resistors are labeled:
R_A, R_B, R_C, R_D

The load resistor is labeled:
R_L

The current to R_A is labeled as $+I_A$ and $-I_A$.
The current to R_B is labeled as $+I_B$ and $-I_B$, etc.

The jack providing the voltage measurement of R_A is labeled $+V_A$ and $-V_A$. Similarly with the other resistors and the battery.

M. C. Herda
Univ of Md
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