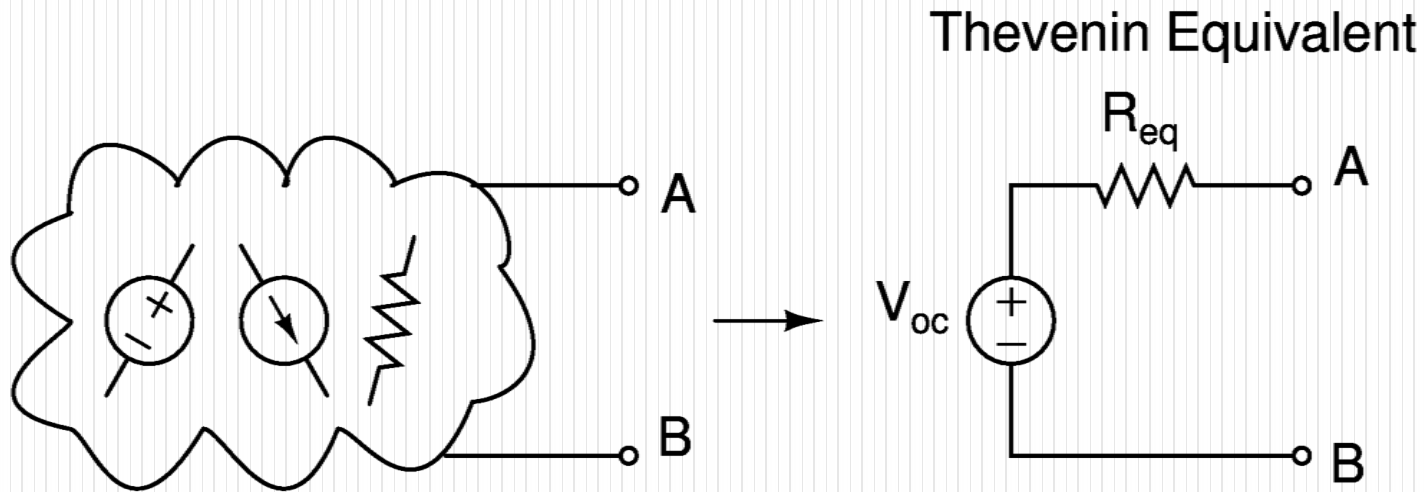
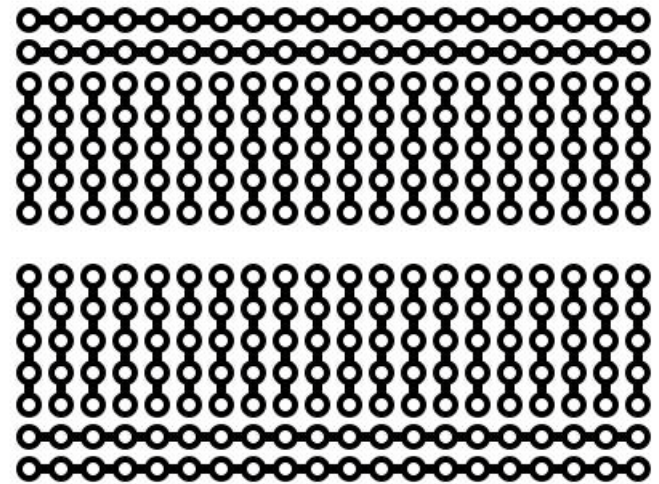
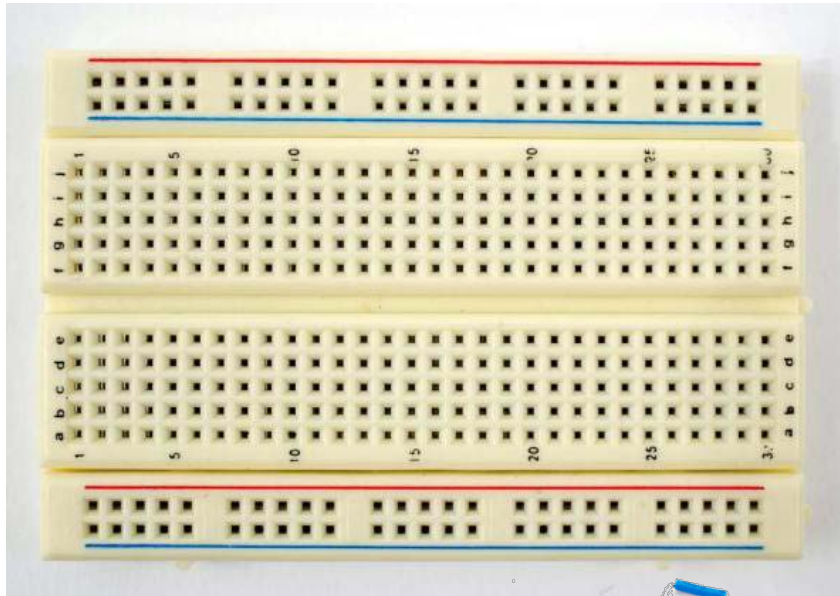


Thevenin Equivalent Circuits



Tools

- Breadboard

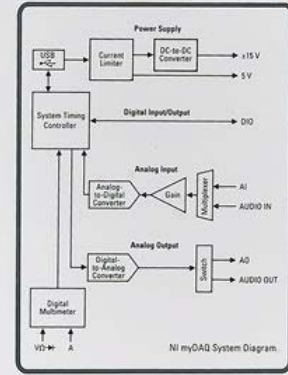
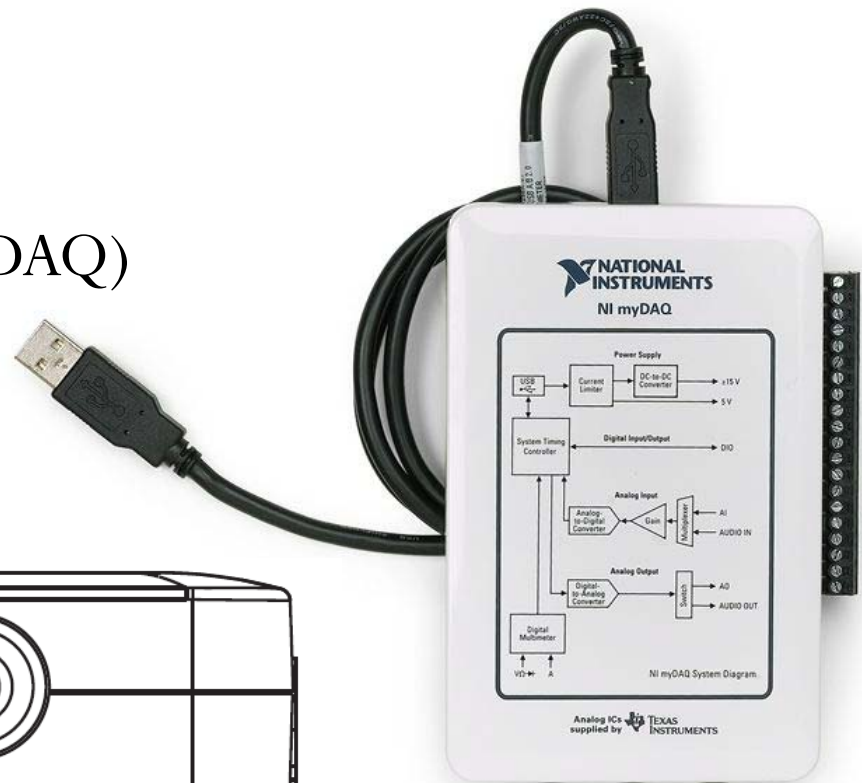
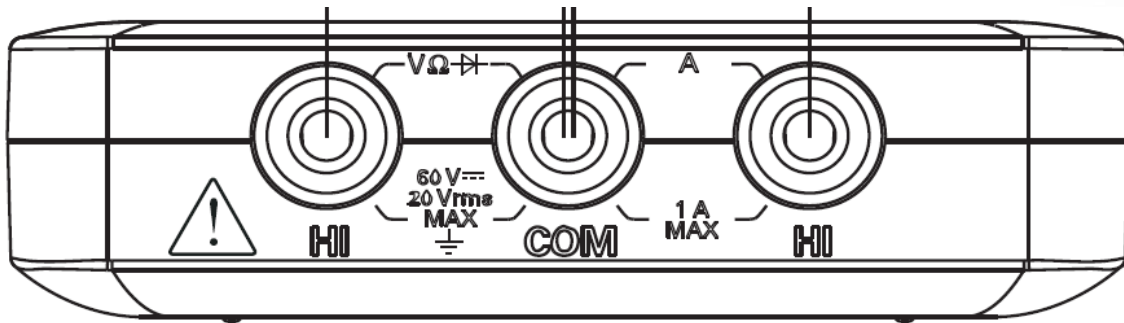


- Resistors and wires

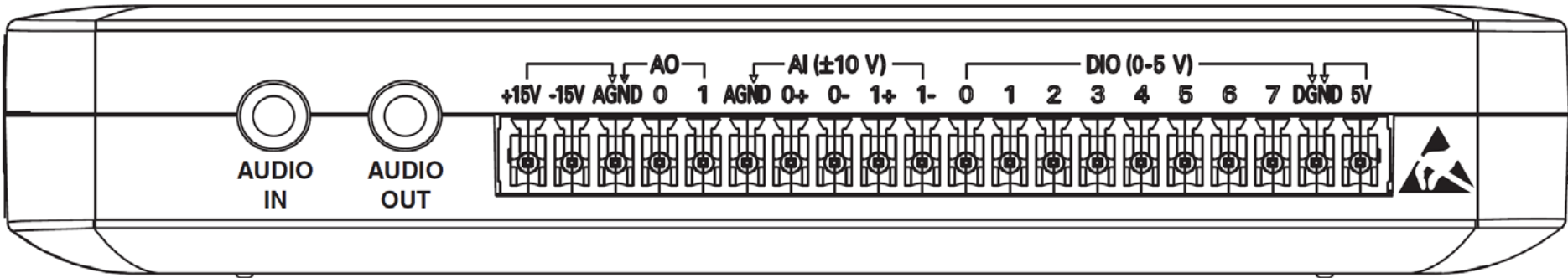


Tools

- Data Acquisition Board (DAQ)

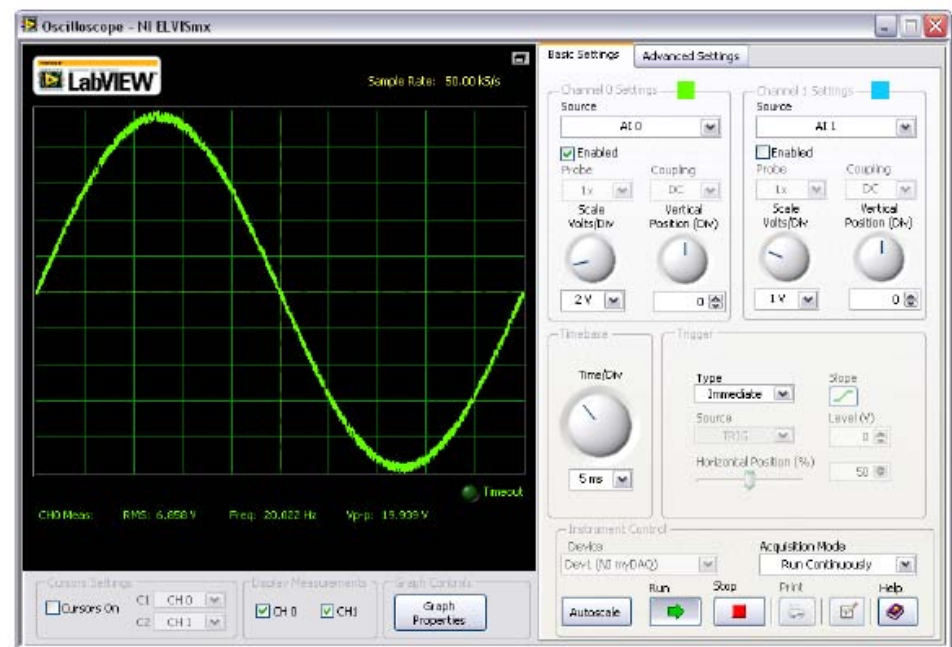
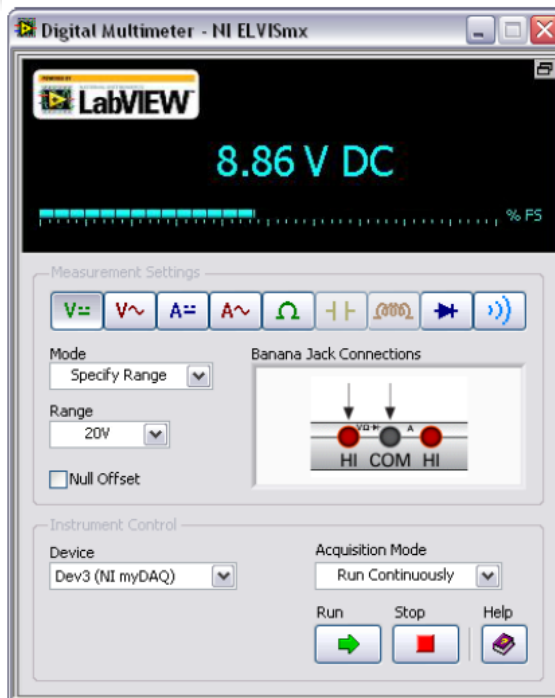


Analog ICs supplied by TEXAS INSTRUMENTS

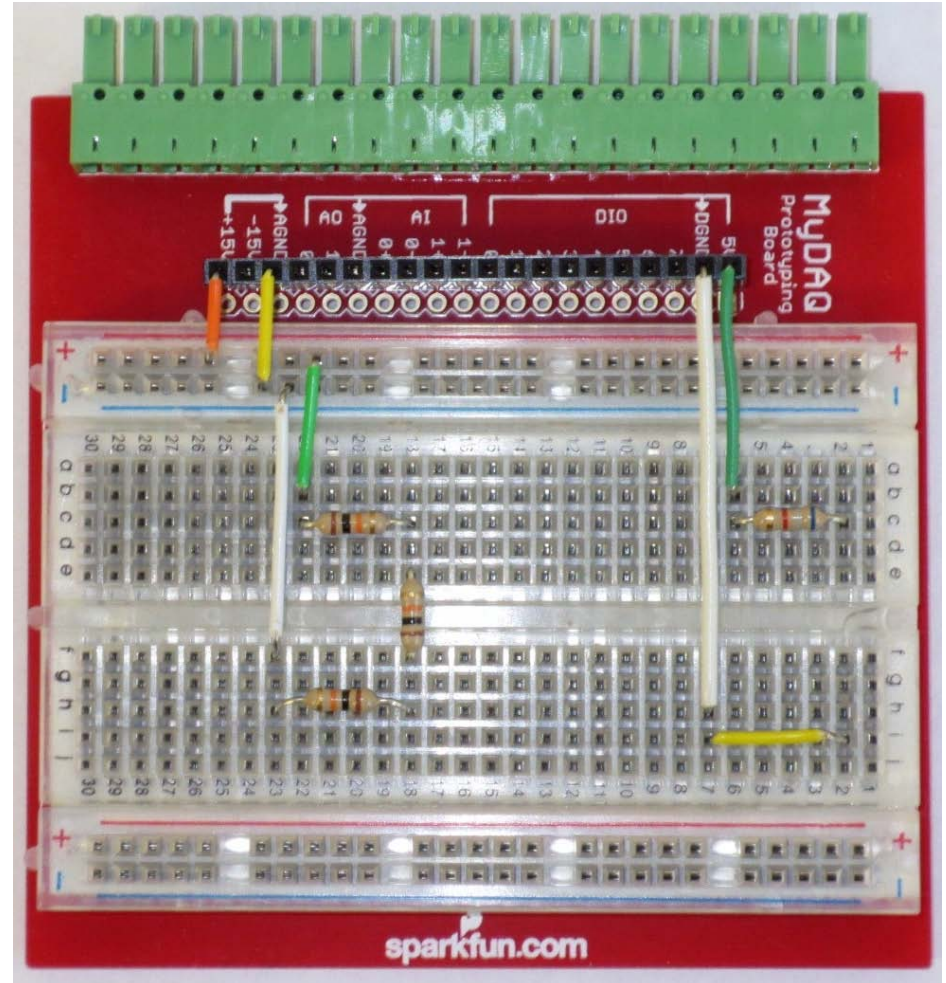
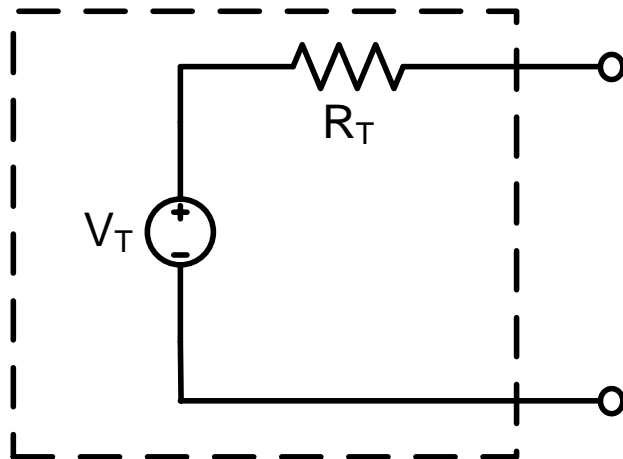
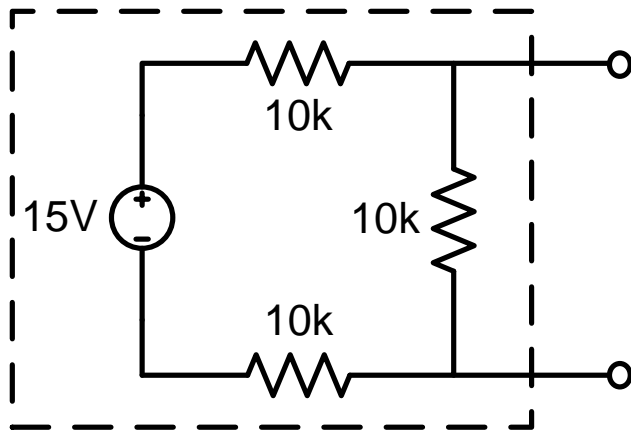


Tools

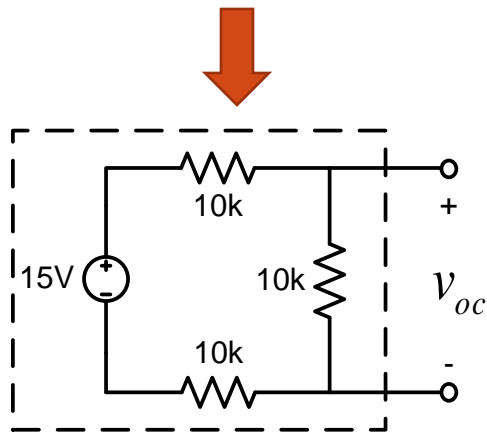
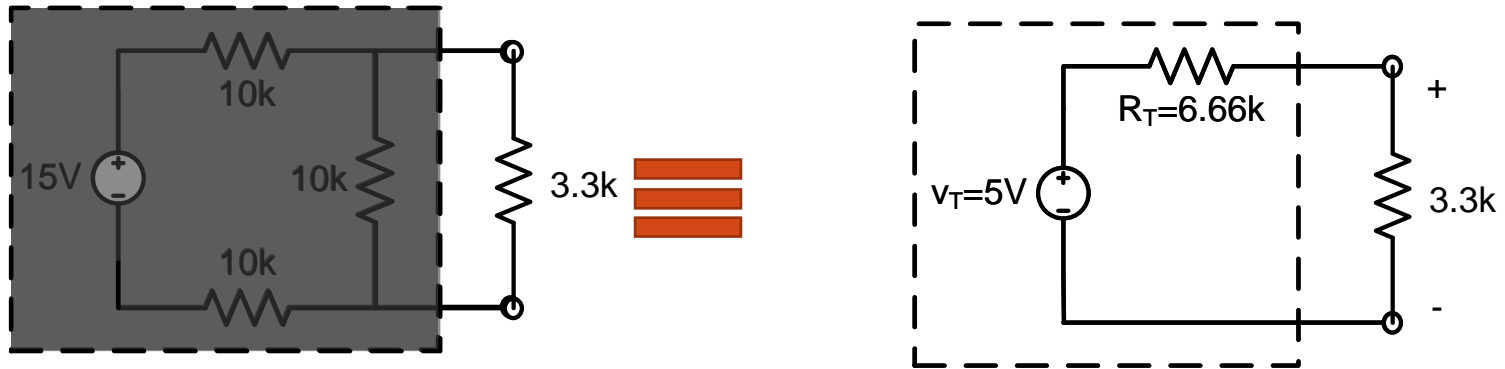
- DAQ Software



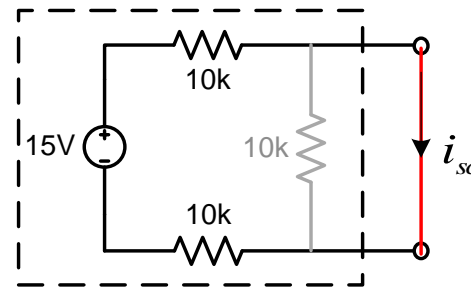
Constructed Circuit



Thevenin Equivalent Circuit



$$v_{oc} = 15 \frac{10}{10 + 10 + 10} = 5\text{V} = v_T$$



$$i_{sc} = \frac{15}{10\text{ k} + 10\text{ k}} = 0.75\text{ mA}$$

$$R_T = \frac{v_{oc}}{i_{sc}} = \frac{5}{0.75\text{ m}} = 6.66\text{ k}\Omega$$