

### **How will the voltage burden affect my current measurements?**

By taking into account the voltage burden ( $V_B$ ), the measured current ( $I_M$ ) can be determined by the following equation:

$$I_M = \frac{V_S - V_B}{R_S} \quad \text{where: } V_S = \text{source voltage}$$
$$R_S = \text{source resistance}$$

From the equation, voltage burden is only a problem when the source voltage is about the same order of magnitude as the voltage burden.

Model Numbers: [6485](#), [485](#), [480](#), [486](#), [487](#), [6517A](#), [6514](#), [614](#), [617](#), [642](#), [6512](#)