



BAS Application Note 005

Input of a 0-10 vdc device directly to an Analog Input

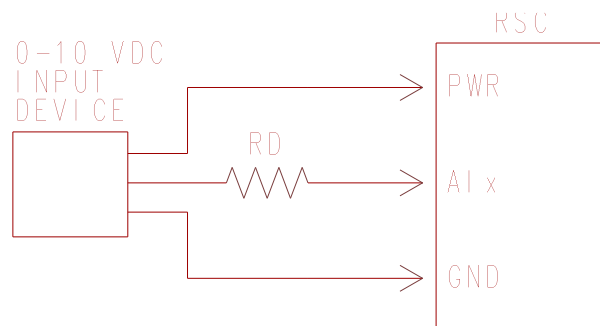
Any 0-10 vdc device can be directly input to an Analog Input by routing the signal through a dropping ohm resistor. Install the resistor between the input device and AI terminal of the RSC.

Rev 1 RSC

RD = 76.8K ohm / 1%

Rev 3 RSC

RD = 46.4K ohm / 1%



Calculating the resistor value for other than a 10 vdc device:

Rev 1 RSC

$$RD = \frac{(V_{\max} - 3.8)}{8.15} * 100,000$$

Rev 3 RSC

$$RD = \frac{(V_{\max} - 5.0)}{10.72} * 100,000$$

RD = the dropping resistor value, in ohms

Vmax = the maximum voltage output of the device