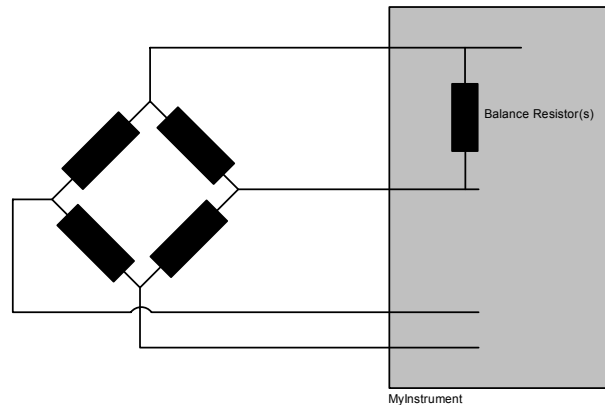


Notes on balancing techniques

There are various ways of automatically balancing thousands of parameters.

1) Shunt Resistors

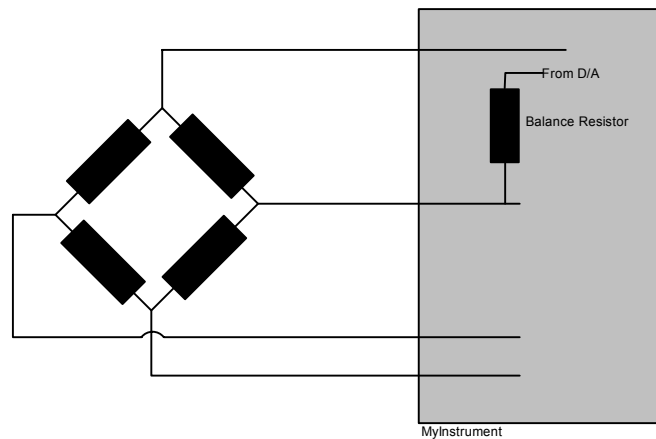
Used on bridges. Apply resistor(s) to top or bottom of arm until reading is as desired (Target) within tolerance (Tolerance). Few instruments offer more than a limited choice of resistors.



Balance applied will be specified in ohm (+ for top of arm - for bottom).

2) Shunt Current

Used on bridges. A small current is applied (usually to the inactive side of bridge via a D/A and a large series resistor).



Balance applied will be specified in uA.

3) Range adjust

Used on any type of analog input. An offset is applied either before or after the A/D so that the reading read is as expected.

Balance applied will be specified in the units being measured.