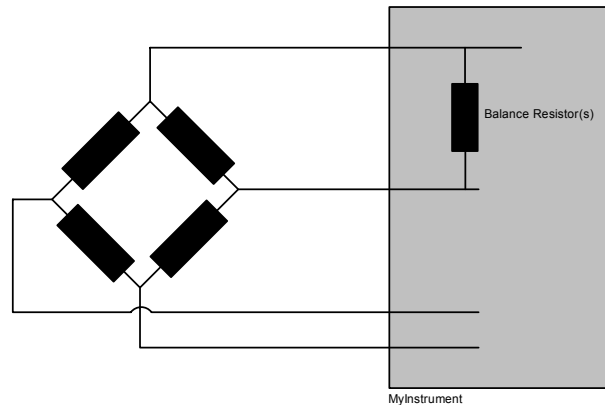


## Notes on balancing techniques

There are various ways of automatically balancing thousands of parameters.

### 1) Shunt Resistors

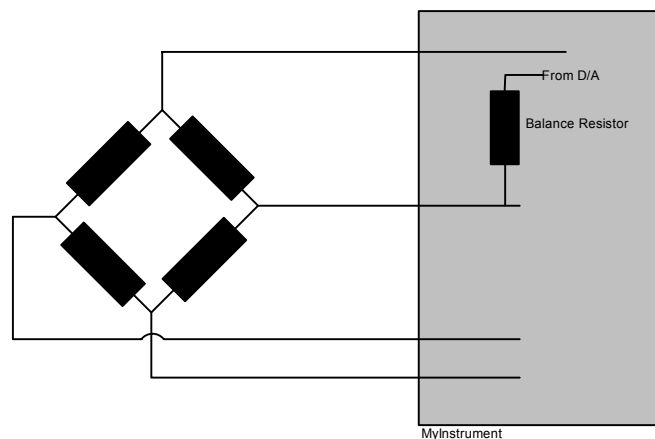
Used on bridges. Apply resistor(s) to top or bottom of arm until reading is as desired (Target) within tolerance (Tolerance). Few instruments offer more than a limited choice of resistors.



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.