

## Glossary of Terms



### **STUCK ON THE MEANING OF A WORD?**

**Linearity** - Greatest deviation of the sensor output curve from a specified straight line over a desired range.

**Hysteresis** - The output deviation at a certain input when that input is approached firstly during increase and then during decrease.

**Repeatability** - The deviation in output for successive applications of a given input provided other conditions are stable.

**Transducer** - A primary measurement sensor but has a low level output signal.

**Transmitter** - Usually the combination of a transducer plus conditioning electronics to provide a higher level output signal.

**Absolute** - Measurement of pressure with respect to vacuum.

**Gauge** - Measurement of pressure with respect to atmospheric pressure.

**Differential** - Measurement of the difference between two pressures.

**Compound** - Measurement of Gauge or Differential pressure from negative to positive values.

**Thermocouple** - Two dissimilar metals joined at a hot point which produce a millivolt signal in proportion to the surrounding temperature. Different metal combinations produce different millivolt tables to give temperature sensing up to 2300°C.

**Resistance Thermometer** - The resistance of a metal is proportional to temperature. Generally platinum is used with a resistance of 100 Ohm at 0°C but older options of copper or nickel are also used. These are often more accurate than thermocouples but have upper temperature limitations of 840°C.