

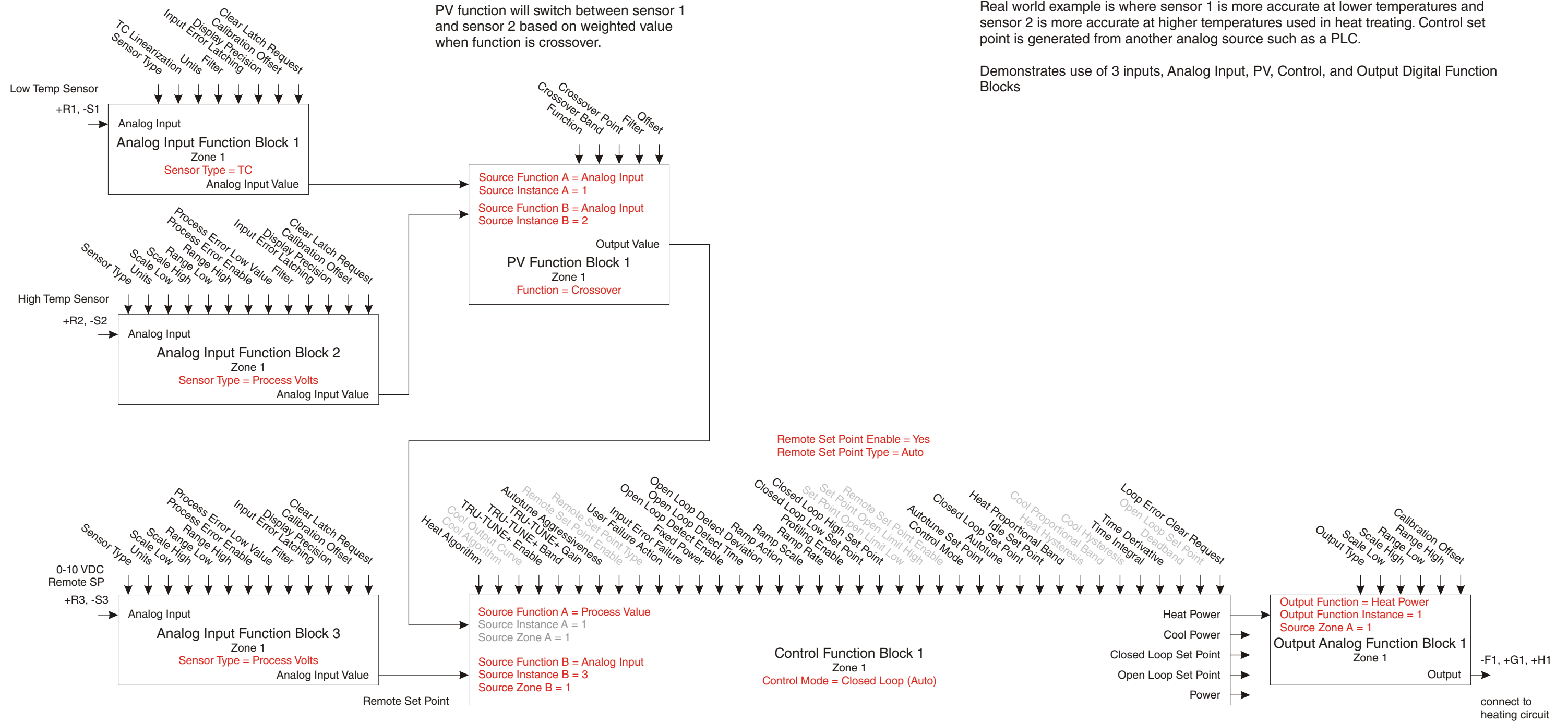
Typical sensor cross over diagram

Example 23 - Heat, closed loop, PID control with remote SP utilizing sensor value 1 or sensor value 2 for heat control. When the sensor crosses from sensor 1 to sensor 2, each sensor has weighted value in the control loop.

Real world example is where sensor 1 is more accurate at lower temperatures and sensor 2 is more accurate at higher temperatures used in heat treating. Control set point is generated from another analog source such as a PLC.

Demonstrates use of 3 inputs, Analog Input, PV, Control, and Output Digital Function Blocks

PV function will switch between sensor 1 and sensor 2 based on weighted value when function is crossover.



Note:
 Control Loop 1 must use PV 1 or Analog Input 1
 Control Loop 2 must use PV 2 or Analog Input 2
 Control Loop 3 must use PV 3 or Analog Input 3
 Control Loop 4 must use PV 4 or Analog Input 4

