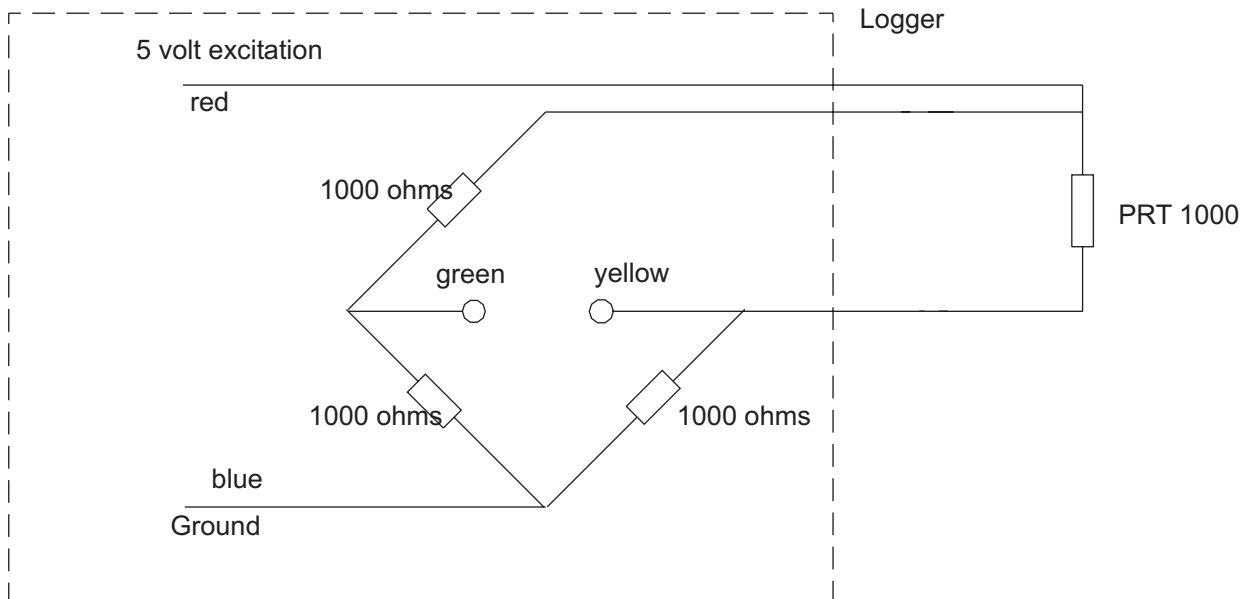




DATALOGGERS

Connection Diagram for a PRT1000



The PRT 1000 should be connected to the logger in a bridge configuration as shown above.

Note that the PRT is used in a 3 wire mode which is the usual way of connecting this type of device. This greatly reduces any errors caused by the resistance of the PRT leads.

Note also that there will be a voltage drop along the excitation wire to the PRT. You may wish to take this into account when calculating the bridge output voltage at the logger for different PRT values. (This error can be minimised by using low resistance cable to connect to the PRT.)

The resistor bridge network should be kept within the logger so as to minimise any errors that might be caused by resistance change due to temperature. Use precision (0.1%, 10 ppm per deg.C) resistors in this bridge.

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