

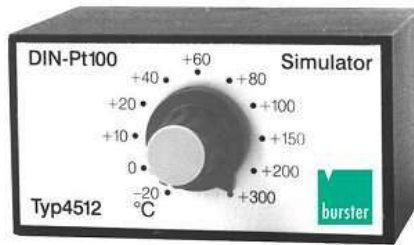
Temperature Exercise 3

Required items:-

Rt (resistance) to current converter head

DVM

PT100 Simulator or similar



Connect the DVM to measure the 4-20 mA output signal from the converter using the 24vDC. Remember polarity of power supply and how items are connected in series.

Refer to the PT100 resistance tables and simulate 0% of the temperature converter head. Check the output of the unit and calibrate the zero point if required.

Refer to the PT100 resistance tables and simulate 100% of the temperature converter head. Check the output of the unit and calibrate the span point if required.

Check that the zero and span values are correct and then connect up a PT100 probe as shown in the Temperature Notes. Do not touch the end of the probe but leave in the surrounding air in order for it to settle to the ambient temperature.

Check that the measured temperature is the same as the display in the workshop by back calculating the input resistance and referring to the PT100 tables.