

Temperature Exercise 2

Required items:-

Temperature indicator

Fluke Temperature Loop Calibrator

Mains operated Electronic Volt Meter

Connect the calibrator wires to the input of the display. Black is positive and white is negative polarity.

Take care when plugging the probe connector block into the calibrator as one of the connector spades is larger than the other.



Switch on the loop calibrator and follow the unit instructions to select type K thermocouple Injection mode. Press the 100% key and using the arrow keys set to 100% of the indicator range (refer to data plate on the unit or the T.O. for actual range).

Using the Electronic Voltage Meter, measure the actual voltage input to the display unit. Refer to the type K thermocouple table and determine from the table what temperature the millivoltage refers too. Why is it not equal to the temperature shown on the display?