PLC LAB 11

Math Instructions

1. Build a 4 to 20 mA circuit using the +12-volt power supply, on the ELVIS taking in to account the PLC input impedance is 250 ohms.
2. Connect the voltage from the POT center tap to LabView and scale it to be displayed on a tank between 5 and 20 as the POT is moved min to max.
3. Input the circuit current to the PLC and scale the input to display a variable 5 to 20 as the POT moved min to max. Display on Panelview both digitally and analog scale 0 to 25
4. Using the above circuit turn on a red light indicating the tank has reached 10 inches.
5. Add another scale for the input on the PLC to go from 32 to 212. Display on Panelview both digitally and analog scale 0 to 220
6. Scale all tanks and temp of the water trainer.