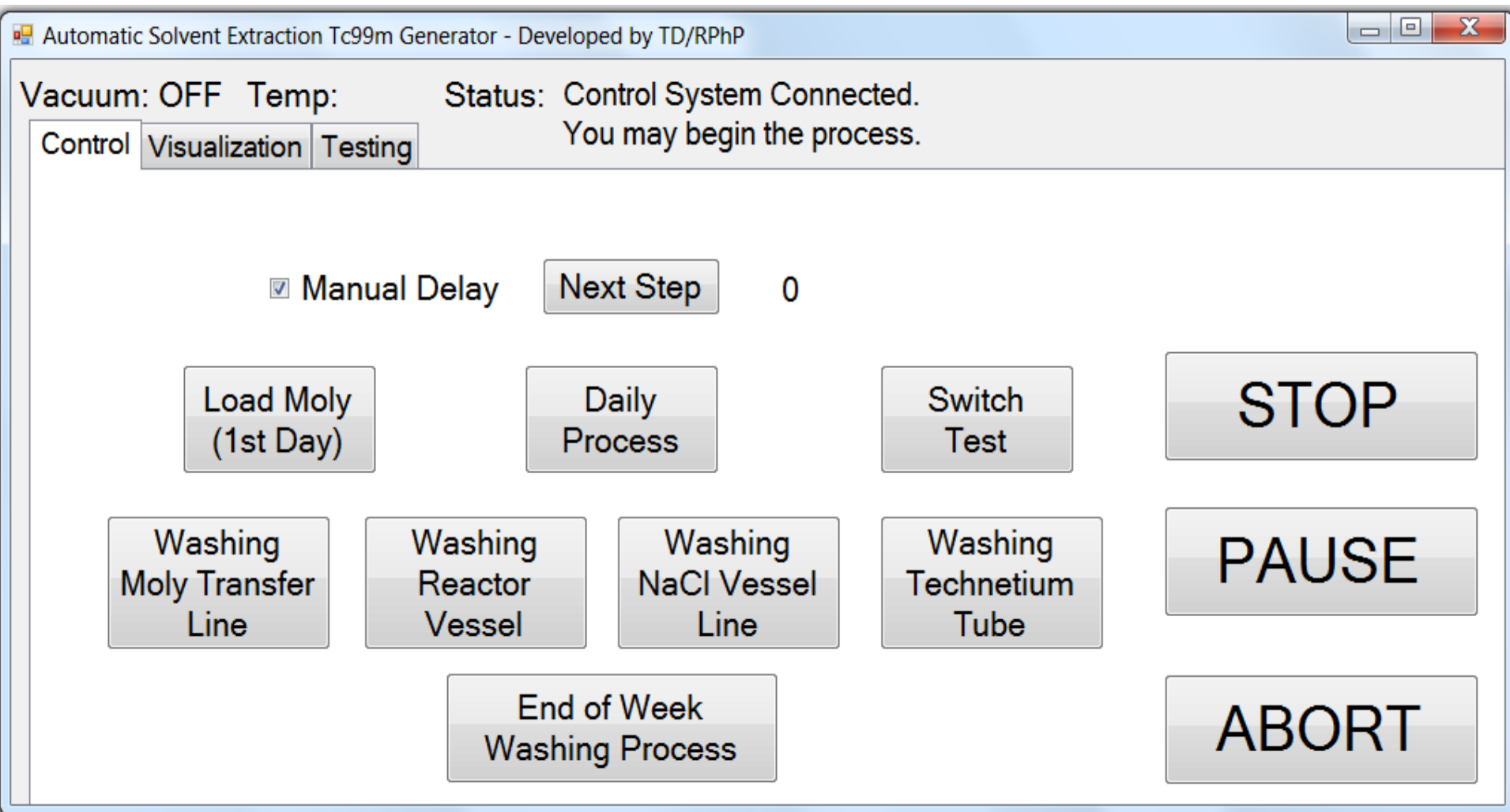
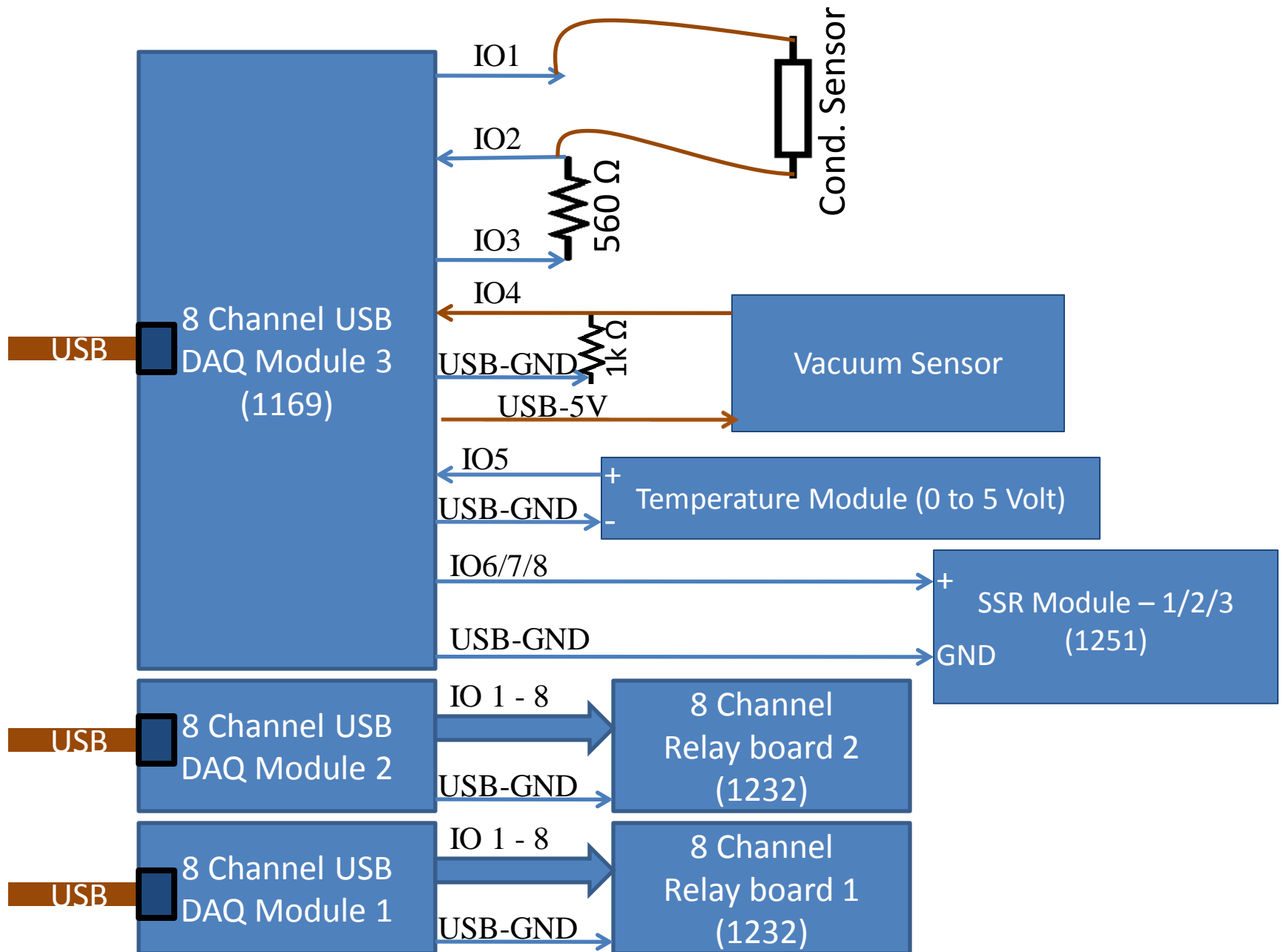


# Automatic Solvent Extraction based Tc99m Generator

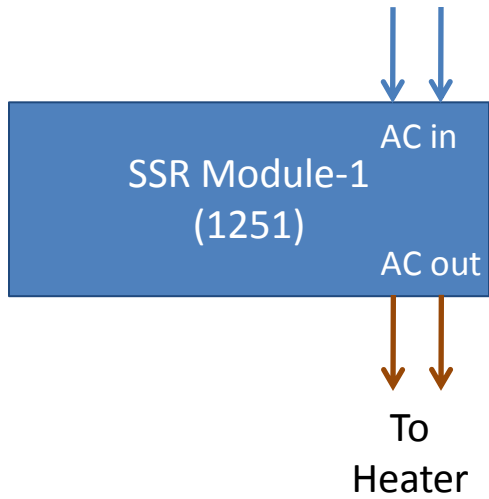
# Control Software Screenshot



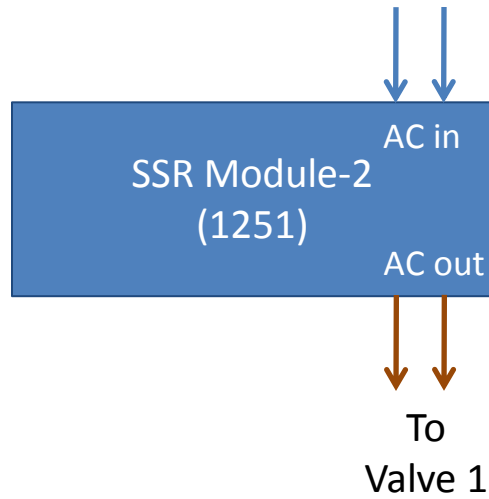
# Control Hardware Architecture



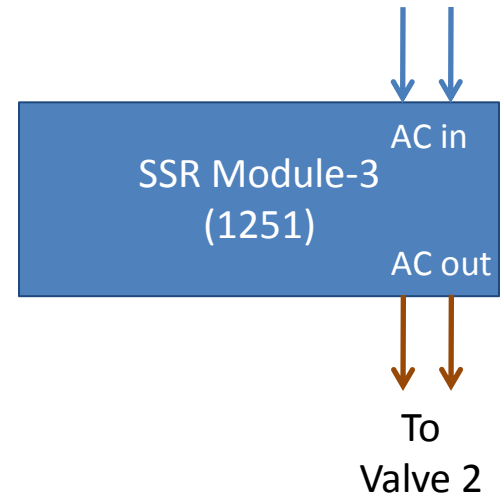
Un-Isolated AC



Un-Isolated AC

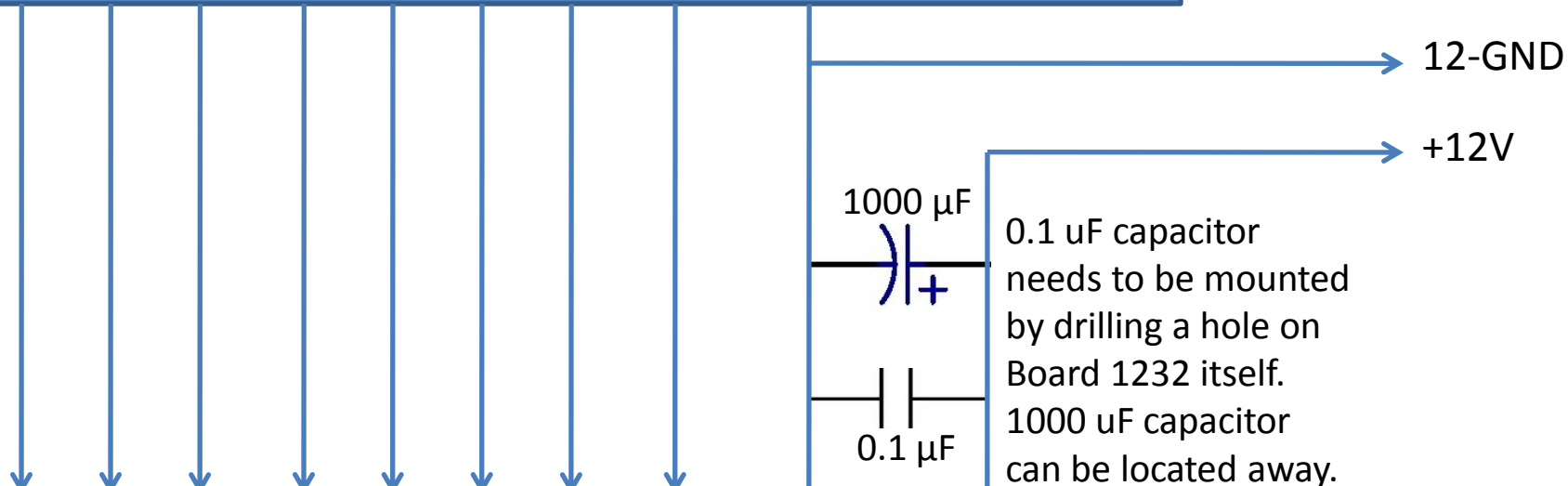


Un-Isolated AC



8 Channel USB DAQ Module 1  
(1169)

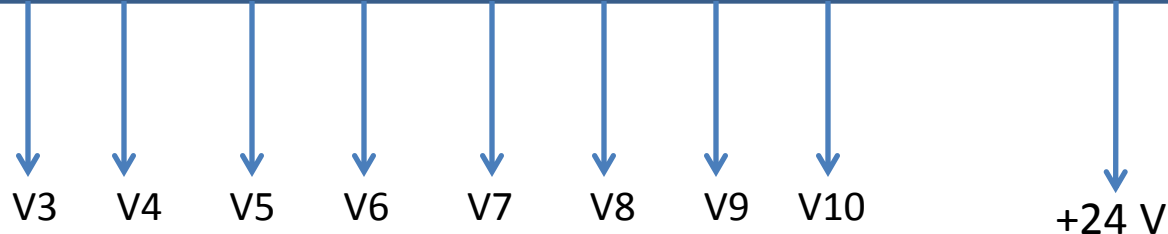
IO1 IO2 IO3 IO4 IO5 IO6 IO7 IO8 USB-GND



1 2 3 4 5 6 7 8 GND +12V

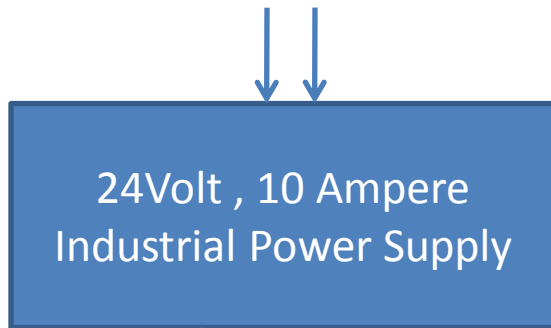
Relay Board – 1  
(1232)

NO1 NO2 NO3 NO4 NO5 NO6 NO7 NO8 1C,2C,3C...8C



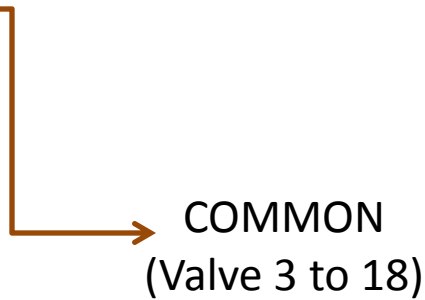


Un-Isolated AC



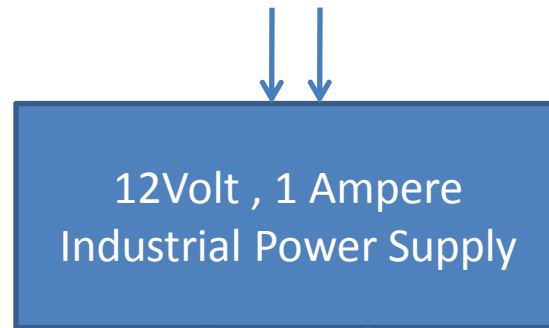
+24 V

24-GND



COMMON  
(Valve 3 to 18)

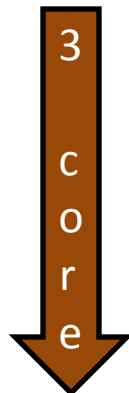
Isolated AC



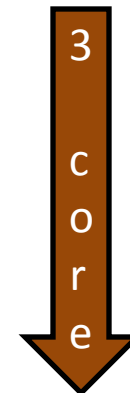
+12 V

12-GND

Un-Isolated AC (Input for panel)

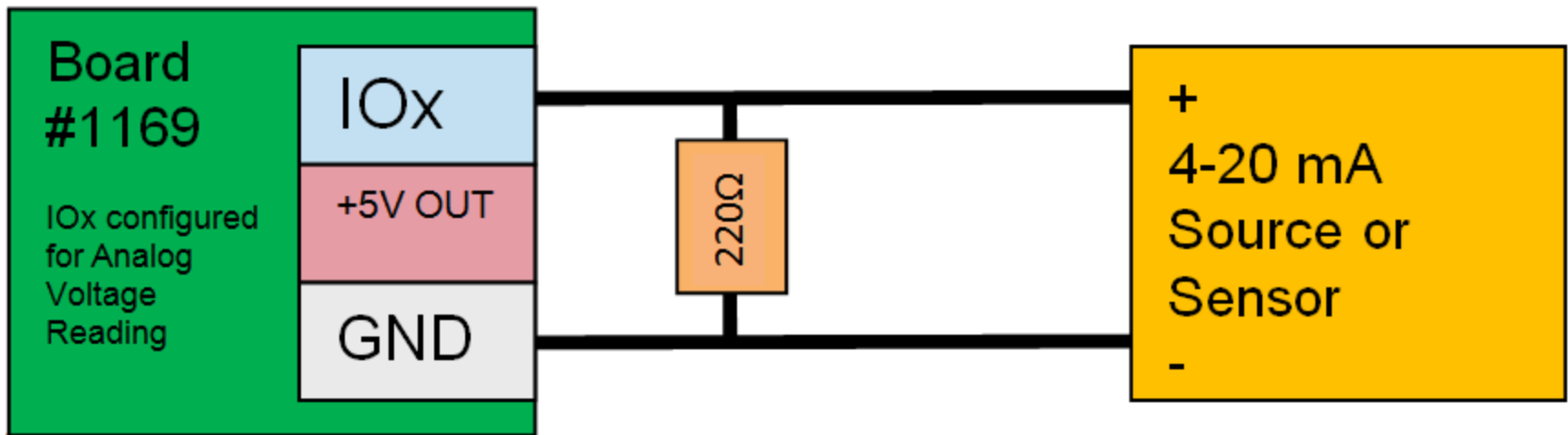


Isolated AC (Input for panel)



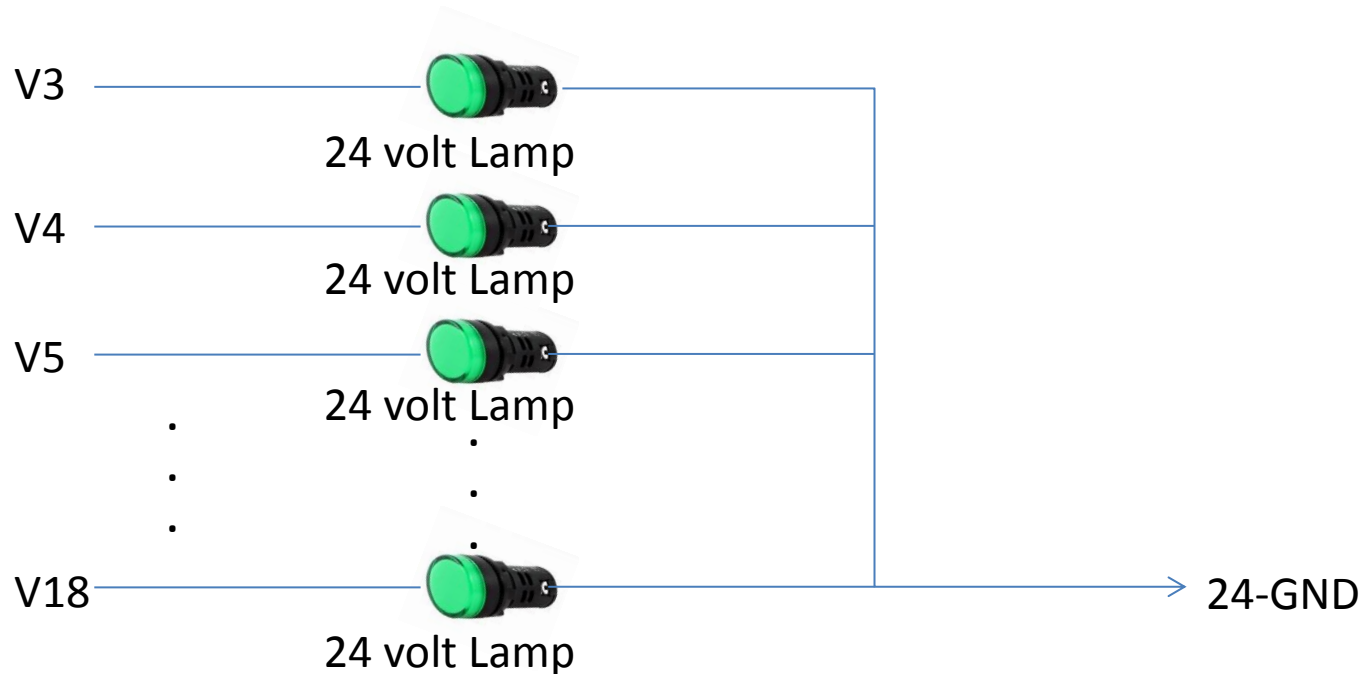


# Converting 4-20 mA TO 0- 5 Volt Analog Signal



220  $\Omega$  resistor needs to be precision type i.e.  
Tolerance = 1% or lesser

# Indication Lamps



The labels on the lamps need to be according to the input signal for example, "Valve 3" for V3, "Heater" for Heater, etc. Total 16 nos. of 24 volt lamps, and 3 nos. of 230 volt lamps

