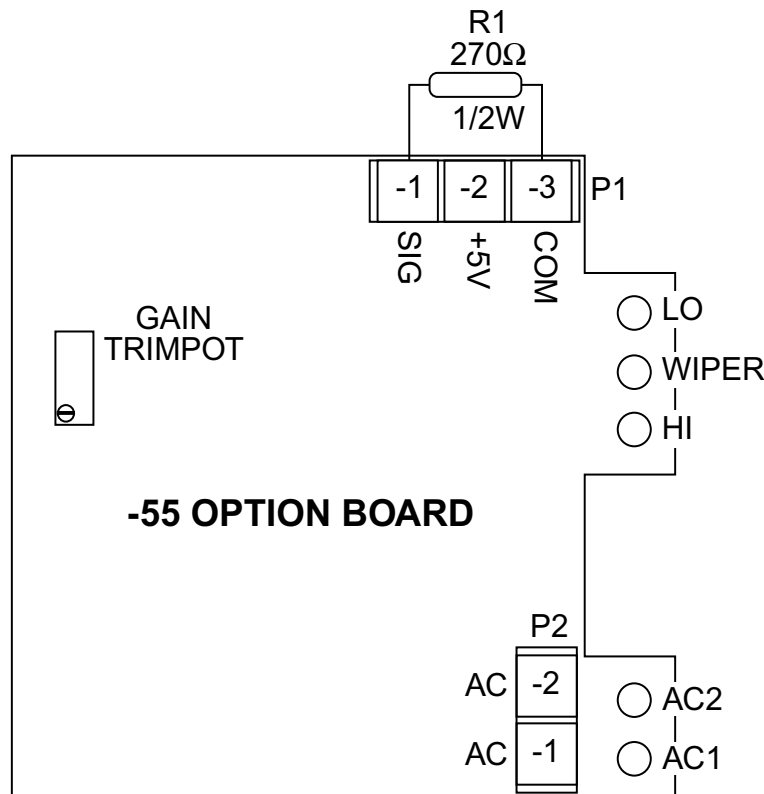


APPLICATION NOTE: **LOW IMPEDANCE CURRENT FOLLOWER**

The -55 Voltage Follower may be used as a low impedance current follower by adding a 270Ω resistor across the common and signal inputs. The 4-20mA supply is then connected to the -55 option board, connecting the current supply common to the -55 option board common, and current supply 4-20mA output to the -55 option board signal input. The 4-20mA across the 270Ω resistor will produce a 1.0 V to 5.4 V input into the -55 option. The control can then be set up as follows:

1. Preset Min. trimpot full CCW.
2. Set Max. trimpot at 50%.
3. Set Gain trimpot on -55 option board fully CW. Note that the Gain trimpot is a 30 turn trimpot and will click when reaching the top or bottom of it's adjustment.
4. Apply 20mA input and adjust the Max. trimpot to set maximum armature voltage.
5. Turn Gain trimpot CCW until armature voltage starts to drop. Slowly adjust Gain CW until reaching the previously set maximum armature voltage.
6. Apply 4mA input and adjust Min. trimpot CW until there is an armature voltage out. Slowly decrease the Min. trimpot until reaching 0 voltage out at armature.



-55 OPTION / VSI VOLTAGE FOLLOWER