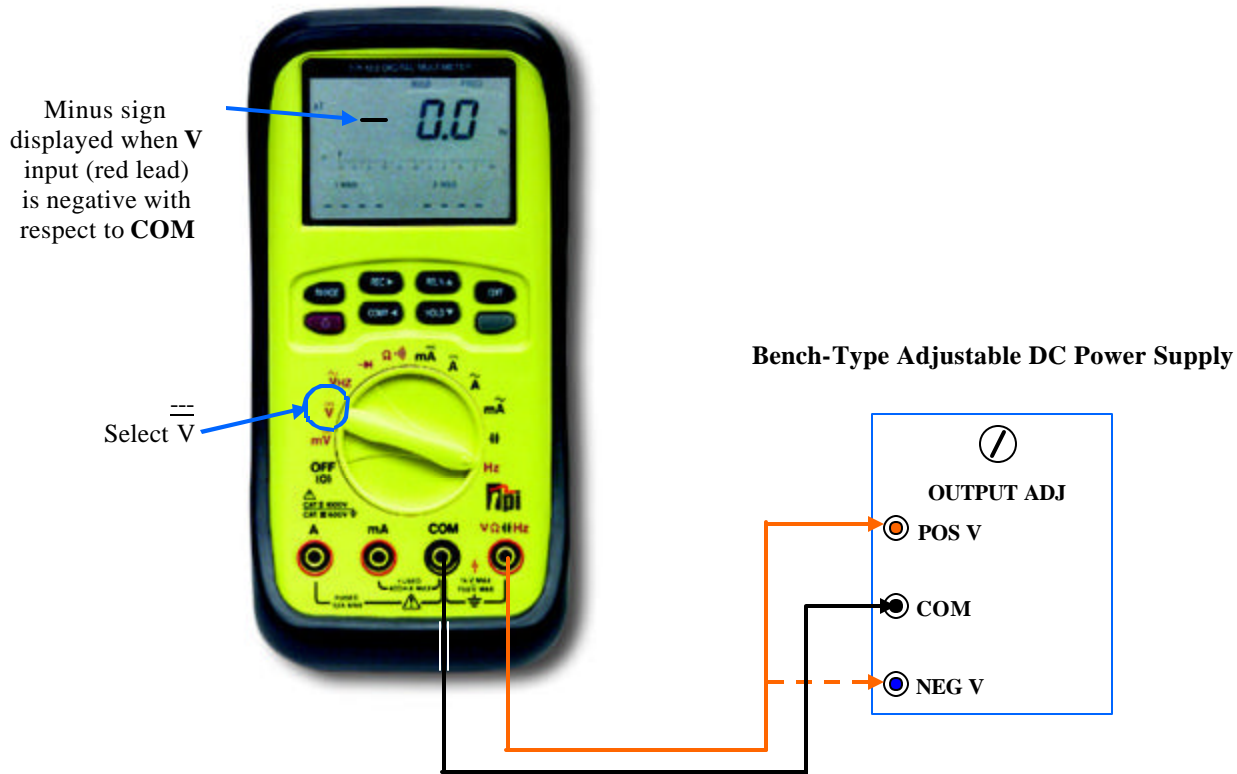


TPI 183 Multimeter



Measuring DC Volts

CAUTION! Do not attempt to make a voltage measurement if a test lead is plugged in the A or μmA input jack. Instrument damage and/or personal injury may result.

Note: Voltage is always measured across two circuit points (in parallel with circuit element under test). On the voltage range with leads plugged-in to the meter as shown the meter has a very high input impedance and draws almost no current from the circuit under test.

WARNING! Do not attempt to make a voltage measurements of more than 1000 VDC or of a voltage level that is unknown.

CAUTION! Always check meter test leads before use to be certain they are in good condition and use test leads with an insulating rating acceptable for the maximum system voltage.

Example: Checking Double-Ended DC Power Supply Output Voltage

- Set Meter Selector Switch on $\overline{\text{V}}$ (DC Volts - Steady or Pulsing)
- Plug in the meter leads as shown: Black lead - Meter COM (Common), Red lead - Meter V (Volts).
- Clip black test lead to power supply COM (common).
- Clip red test lead to power supply POS V (PS DC Pos Out). Meter will display the positive DC voltage.
- To check PS NEG Out, move *red* lead to power supply NEG V. Meter will indicate the negative DC voltage with negative sign on the display.

The TPI 183 is auto-ranging (selects appropriate decimal point) and will display the voltage to the greatest degree of accuracy possible.