

Linear Scale Ohmmeter

This circuit has several advantages over other linear scale ohmmeters.

Only one preset resistor is used for all the ranges, simplifying the setting up and reducing the cost. Diode clamping is included to prevent damage to the meter if the unknown resistor is higher

than the range selected. The use of a FET 741 op-amp reduces any zero error and makes offsetting unnecessary.

When the meter has been assembled, a 10k precision resistor is placed in the test position, R_x , the meter is set to the 10k range and RV1 adjusted for full scale deflection.

