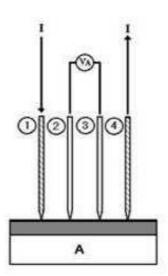


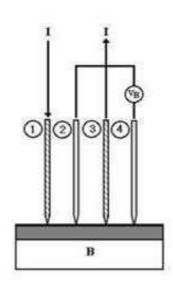
Dual Configuration

The Dual Configuration method measures current in both + and - polarity and in two different pin configurations as follows:

(1) Configuration A

Measure the Voltage Va23 and the Current la14 in the Traditional configuration as noted in figure a. Repeat the measurement in the reverse direction. Va32 and la41.





(2) Configuration B

Measure the Voltage Vb24 and the Current Ib13 in the traditional configuration as noted in figure b. Repeat the measurement in the reverse direction. Vb42 and Ib31.

Then

Ra = (Va23/la14 + Va32/la41)/2

Rb = (Vb24/lb13 + Vb42/lb31)/2

The Dual Configuration correction constant, Ka is:

Ka = -14.696 + 25.173(Ra/Rb) - 7.872(Ra/Rb)2

The average resistance of the film or Rs (ohms) is :

 $Rs = Ra \times Ka = \{-14.696 + 25.173(Ra/Rb) - 7.872(Ra/Rb)2\} \times Ra$