

Lab Session 08

Analyze and implement Norton's Theorem

Norton's Theorem:

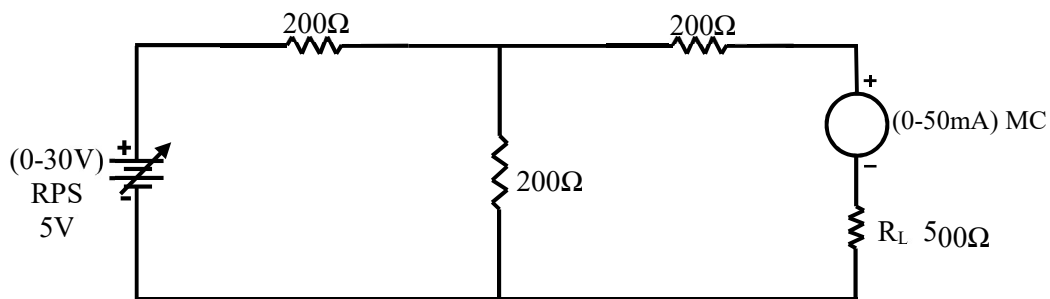
Objective:

- Verify the Norton's theorem theoretically and practically for a given circuit

Statement:

Norton's theorem states that any linear two-terminal circuit can be replaced by an equivalent circuit consisting of a current source I_N in parallel with a resistor R_N .

Circuit Diagram



Circuit (i)

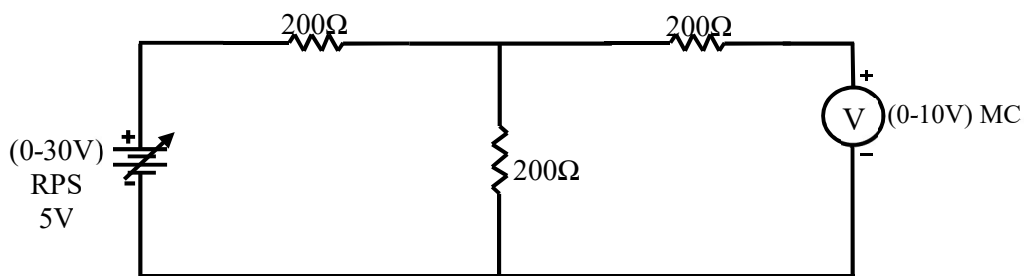


Fig 5.2

Circuit (ii)

Procedure:

Find I_L

- 1) Connections are given as per the circuit (i)
- 2) The Load current I_L is noted for various values of supply voltage and tabulated.

Find V_{oc}

1. Connections are modified as shown in the circuit (ii)

