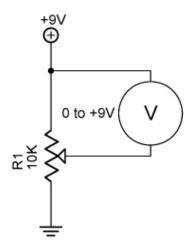
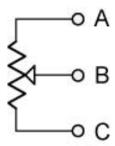
Potentiometer Voltage Divider



Potentiometer Voltage Divider

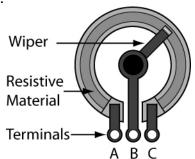
Explanation:.

- Potentiometers: A potentiometer is a type of variable resistor that is used in circuits having low power. They are used to divide voltage and they come with three terminals.
- o Symbol:



- The resistance between A and C is constant and the value of the potentiometer.
- The resistance between A and B & B and C changes according to the position of the wiper.

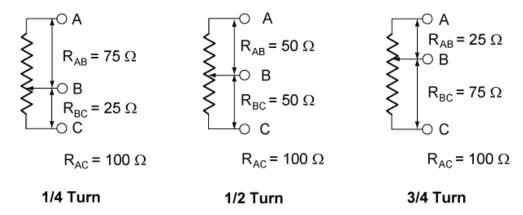
o Construction:



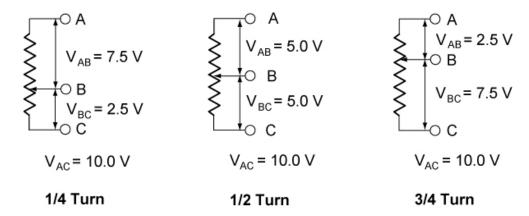
Basic Potentiometer Construction

Moving the wiper of a potentiometer:

In the figures below, the resistance R_{AC} remains 100 Ω in all three cases. R_{AB} and R_{BC} change as the wiper rotates.



If 10.0 volts is applied to the two end terminals A and C, the voltage on terminal B varies from 0 to 10.0 volts.



Related Lesson:

http://cornerstonerobotics.org/curriculum/lessons_year1/ER%20Week9,%20Potentiome_ters.pdf