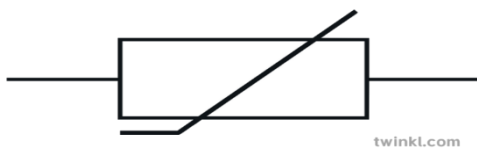


Transducers: The devices that make use of physical variables and convert them to electrical signals are called transducers.

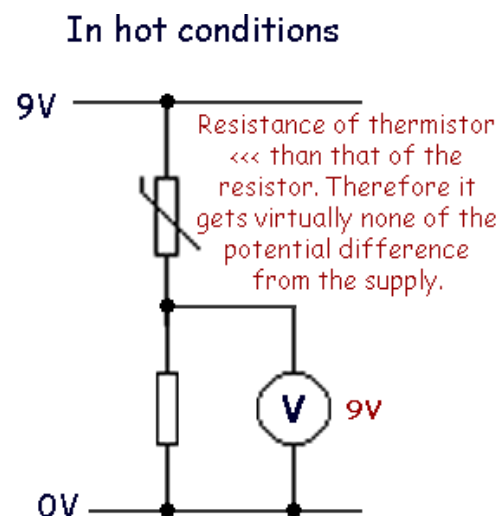
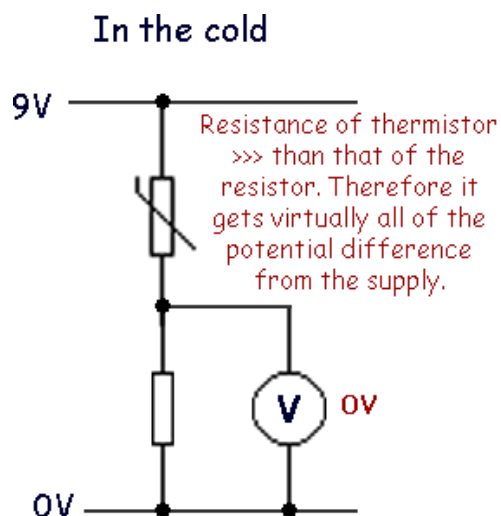
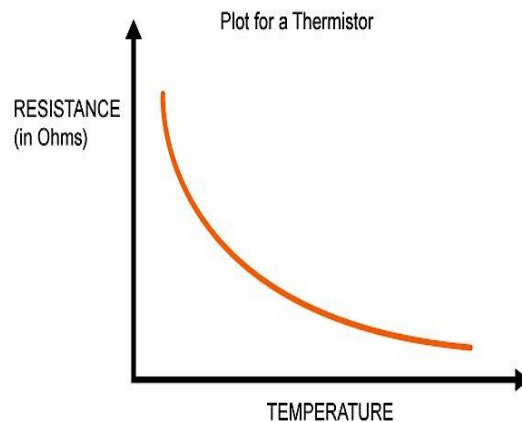
An input **transducer** responds to change in the environment (like temperature) and produces a voltage.

The electrical circuit to which input transducer is connected then provides the voltage needed to operate the **output transducer**.

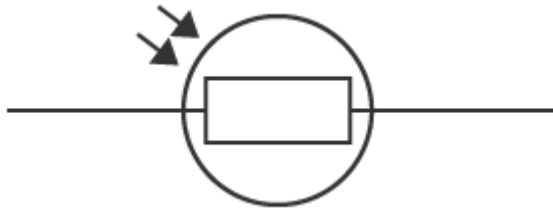
Thermistor: It is a device whose resistance is affected by temperature. Resistance increases or decreases with temperature. The device is used for temperature control, temperature measurements and fire alarms.



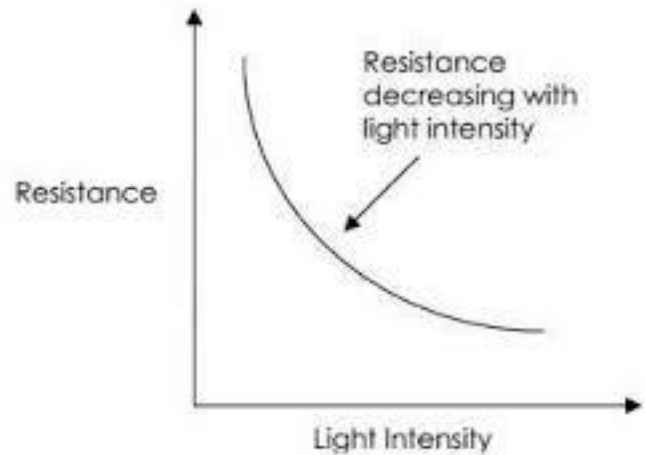
Circuit symbol



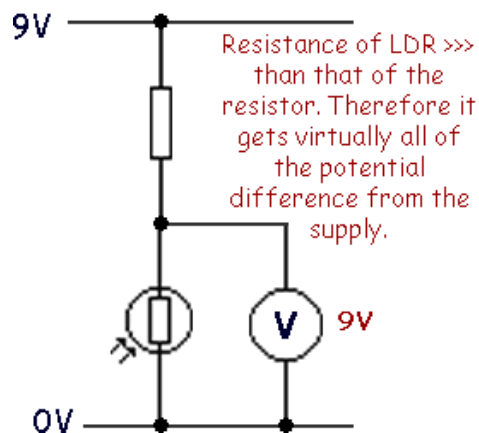
Light dependent resistors: The resistance varies with the amount of light incident on it. The resistance decreases as the amount of light shining on the resistor increases. Under bright lighting the L.D.R has low resistance and in the dark, it has high resistance.



Circuit symbol



In the Dark



Under a bright Light

