


I-AN POTENTIOMETER

Required knowledge Potentiometer, Ohm's Law, Voltage Divider

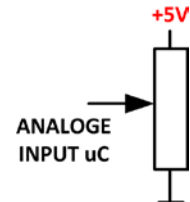
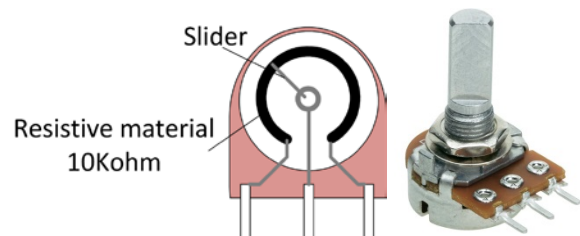
	<p>Basic : Omhs Law, voltage divider Potentiometer, variable resistor, trimmer</p>
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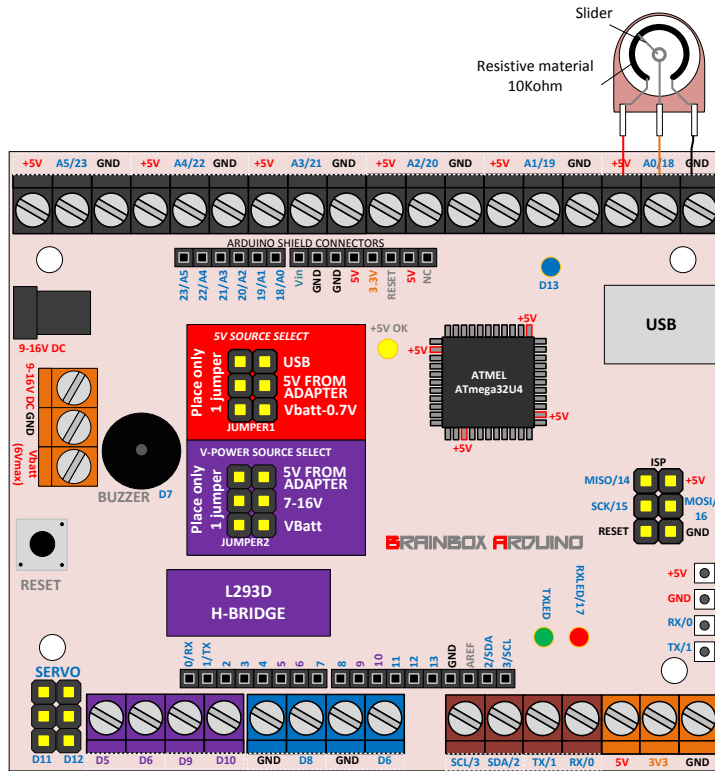
Our main usage for potentiometers is to set a certain value. For instance a desired temperature or speed. You could also use potentiometers to position something or to measure an angle.

Components:

Potentiometer 10K	Conrad 358-131-20
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1. Potentiometers are variable resistors that can be set by turning the slider.
2. Potentiometers are built round a track of resistive material. Between the two outer connectors you always measure the total resistance. By turning the slider, you can change the resistance between the slider pin and one of the outer pins.
3. By connecting the two outer pins to 5V and GND, the voltage on the slider pin can now be set between 0V and 5V by turning the slider.
4. Connect the potentiometer to one of the 6 analog inputs (A0, A1, A2, A3, A4, A5)





CODE EXAMPLE: 'I-AN'