

```
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//rebot.org
```

```
void setup(){  
  Serial.begin(9600);  
}
```

```
void loop(){  
  
  VacRead(0); //returns the voltage on the Vac  
  
  Serial.print("Vac is: ");  
  Serial.println(VacRead(0));  
  delay(1000);  
}
```

```
double VacRead(int analogPin){  
  
  double voltageIn = 5*(double)analogRead(analogPin)/1023; //voltageIn is Vout on the equation  
  
  //Serial.print("voltageIn is");  
  //Serial.println(voltageIn);  
  
  double Vac = 11*voltageIn - 25;  
  
  //Serial.print("  Vac is");  
  //Serial.println(Vac);  
  
  return Vac;  
}
```