```
5A Module       20A Module      30A Module
185mV/Amp       100mV/Amp       66mV per Amp
```

Let us assume that the microcontroller you are using has a 10-bit ADC and operates at 5V with a reference voltage of 5V for ADC conversion in that case the microcontroller will read the values of ADC from 0 to 1024.

Then you can use the formulae below to calculate the Output Voltage from ADC values.

```
Vout (mV) = (ADC Value/  1023)*5000
```

After calculating the output voltage we can, calculate the value of current from the voltage using the below formulae

```
Current Through the Wire (A) = (Vout(mv)-2500)/Scale factor
```

Note that the value of scale factor changes for every module based on its range. The values of scale factor for all three modules are given in the specifications above.