

100A Current Sensor Module AC DC with Over-Current Detection

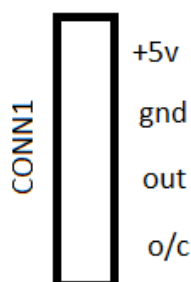
Product ID: VVM002

Version: v1.1

Features:

- Hall Effect based current sensing
- Can measure both AC and DC currents without breaking wire or system
- DC current range: +/- 100A, AC current range: 70A RMS
- Output voltage proportional to AC and DC current, Sensitivity 22mV/A for 5v supply
- Diameter 9.0mm conductor through hole, board size is 49mmx30mm
- Over current value can be easily set using preset
- Green LED for power indication, red LED for over current detection
- Electrical Isolation 4000V
- Bandwidth > 20kHz, nearly zero magnetic hysteresis
- Typical Applications include Motor Control, Power Systems, Solar Systems, Battery Chargers, Electric Vehicles, Load Detection, Over current Fault Detection, etc

Description: VVM002 Current Sensor Module provides economical and precise current measurement solution for industrial and commercial applications. The module allows system designers to monitor any current path without breaking or changing original system. AC and DC current flowing through the 9.0mm hole will generate a magnetic field which is sensed and converted into a proportional voltage.

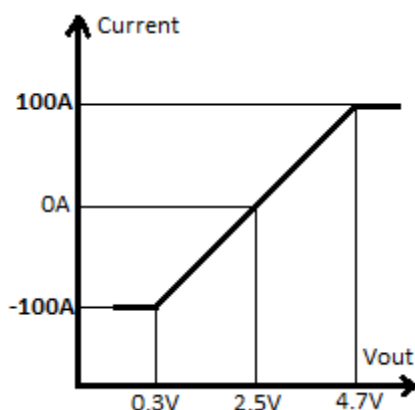


+5v : 5v Supply

gnd : Supply Ground

out : Output Voltage proportional to current, 22mV/A for 5v supply

o/c : Over-Current Detection Digital Output, Low on Over-Current, High otherwise



$$\text{Current} = \frac{V_{\text{out}} - 2.5}{0.022}$$

Over Current can be detected by adjusting the preset for desired value of current. Turn preset clockwise to increase current range and anti-clockwise to decrease current range. On over current, o/c pin goes low and red LED glows. Over Current cannot be set for negative values of current

