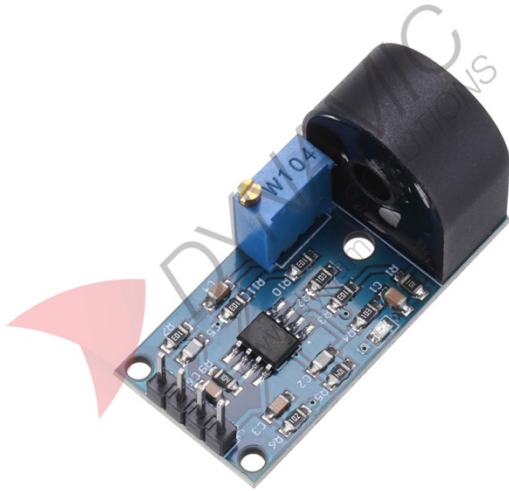


Current Transformer Module 5A AC



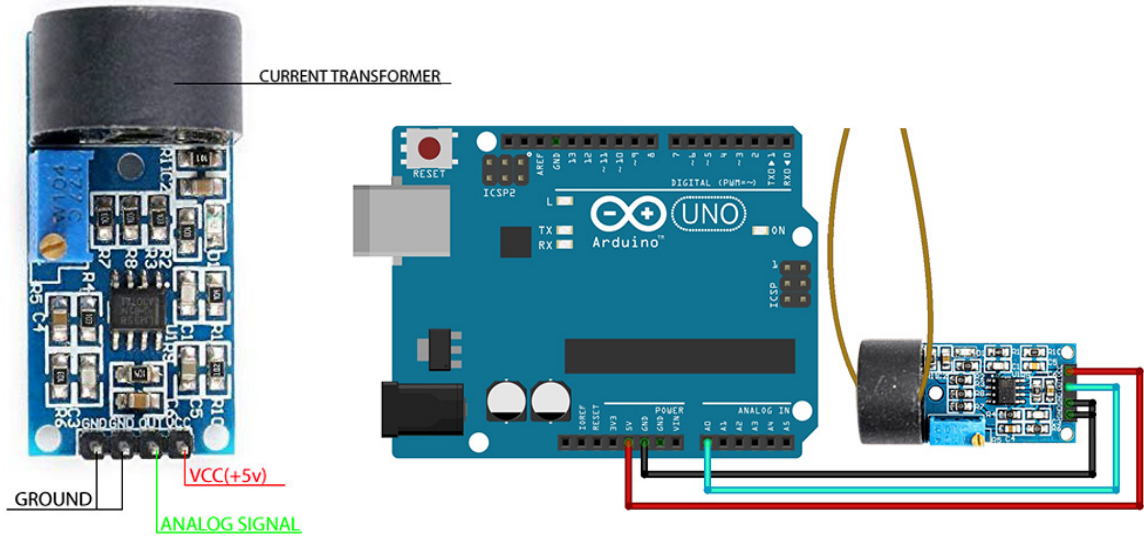
Features:

The ZMCT103C current transformer module provides high-accuracy AC current measurement with galvanic isolation. It integrates the ZMCT103C precision current transformer with an LM358 op-amp circuit for amplification and signal conditioning. The adjustable amplification ratio (0–100x) allows the analog output to be tuned for microcontroller or ADC input, with a maximum output limited to 1/2 VCC. Designed for 5A rated current and up to 10A linear range, the module is widely used in energy metering, AC monitoring, and protection systems. Its epoxy-sealed design ensures durability, while the 3000V isolation rating enhances safety.

Specifications	
Transformer Model	ZMCT103C
Rated Input Current	5A
Rated Output Current	5mA
Change Ratio	1000:01:00
Phase Difference	≤ 20' (100Ω load)
Linear Range	0–10A (100Ω load)
Linearity	0.2%
Precision Level	0.2
Isolation Withstand Voltage	3000V
Working Temperature	-40°C to +70°C
Sealing Material	Epoxy resin
Module Supply Voltage	5V – 30V DC
Output Signal	Analog (max 1/2 VCC)
Usage	AC current measurement, energy monitoring, DIY electronics

Pinouts:

Pin Name	Type	Description
VCC	Power	Module supply voltage (5V – 30V DC)
OUT	Signal	Analog output signal (adjustable gain, max 1/2 VCC)
GND	Ground	Signal ground
GND	Ground	Power ground



Product Pictures:

