Current Sensor Expert
LIOU ELECTRONICS

Description

- 50/60 Hz，Single Phase，AC Current Sensor
- Dynamic Range from 0.5 to 120Amps
- Accuracy class 0.05 Phase error < 3'
- Immune to external AC magnetic field. Immune to DC current & DC magnetic field
- Very low temperature coefficient
- Meets UL class B (130℃) thermal insulation system
- Meets UL 94V-0
- AC isolation resistance: 4KV for 60s

Application

- Electricity meter
- Recording
- Power monitoring
- Energy management
- Alternative energy monitoring

ELECTRIC SPECIFICAITON AT 25℃										
Model number	Turns Ration	Ipri[4]	Iout[5]	Iprimax[6]	Ioutmax[7]	R_S	Accuracy Class	R_L[8]	Weight	Frequency range
		Amps	**mA**	**Amps**	**mA**	**Ohms**		**Ohms**	**(g)**	**(Hz)**
LO-EM0002	1:2000	5	2.5	120	60		0.05	≤40	40	50-60

Note:

1.Output voltage is proportional to the derivative(di/dt)of the input current based on the Rogowski Coil principle.

2.All current and voltages assumed to be sinusoidal waveforms at Fr, the constant rated frequency in Hz, measured as RMS value.

4.Ipri=Rated primary current.

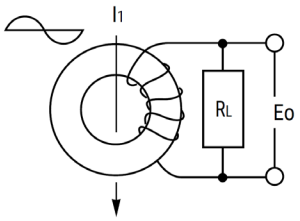
5.Iout=Rated secondary current.

6.Iprimax=Sensed max primary current.

7.Loutmax=Sensed max secondary current.

8.R_L=Terminating resistance. Varying terminating resistance increases or decreases output Voltage /Ampers according to following equation R_L=Vout*Nsec/Ipri

Measuring Circut



I1 : Primary current (AT)
RL : Load resistance (Ω)
Eo : Output voltage (mV_{rms})

ABSOLUTE MAXIMUM RATINGS	
Operating free air temperature range	-40℃ to 85℃
Storage temperature range	-40℃ to 125℃
LEADS INFORMATION	
UL1007 22Awg wire white & red	150CM±2.0MM
Terminal block	2.5mm terminal

Mechanical Specifications