Current Sensor Expert
LIOU ELECTRONICS

Description

- ♦ 50/60 Hz，Single Phase，AC Current Sensor
- ♦ Dynamic Range from 0.25 to 100Amps
- ♦ Meets IEC62053-21 class 1
- ♦ Meets IEC 60044-1 class 0.1 Phase error < 5'
- ♦ Very low temperature coefficient
- ♦ Meets UL class B (130°C) 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]	Rs	Accuracy Class[3]	R_L[8]	Weight	Frequency range
		Amps	**mA**	**Amps**	**mA**	**Ohms**		**Ohms**	**(g)**	**(Hz)**
LO-EM0006	1:2000	5	2.5	100	50		0.1	15		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.

3.Accuracy class per IEC60044-1Table 11.

4.Ipri=Rated primary current.

5.Iout=Rated secondary current.

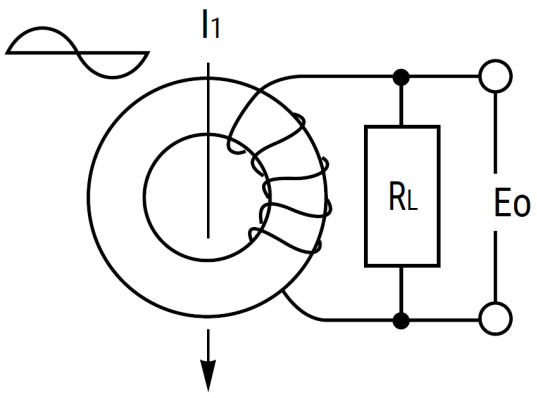
6.Iprimax=Sensed max primary current.

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

ABSOLUTE MAXIMUM RATINGS	
Operating free air temperature range	-40℃ to 85℃
Storage temperature range	-40℃ to 100℃
LEADS INFORMATION	
24AWG UL1569 Lead wires	Leads length:108±5mm
Stripped and tinned	3±1mm

Measuring Circut



I_1 : Primary current (AT)
R_L : Load resistance (Ω)
Eo : Output voltage (mV_{rms})

Mechanical Specifications