

Mini Io/Ior Clamp Leaker

True Resistive Leakage Current (I_{or}) Measurements

Model 340 IR (CE)



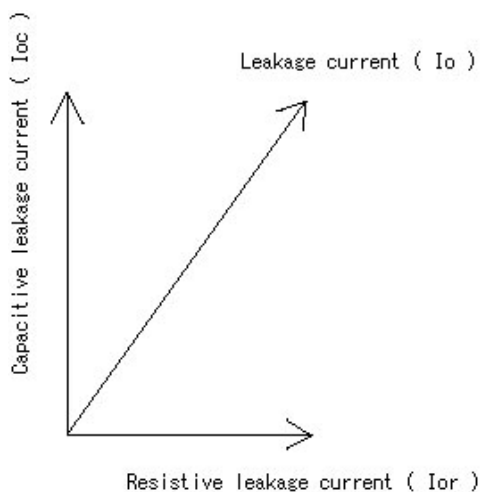
FEATURES

- Compact size and light weight for convenient field use.
- High accuracy and resolution (0.001mA for I_o & I_{or}).
- Safe phase detection by voltage input cable with fuse protection.
- Extensional measurements by combination with optional leakage current clamp adaptor.
- Compliant with IEC safety standard

Explanation of true resistive leakage current (I_{or})

Generally, the leakage current (I_o) include capacitive leakage current (I_{oc}) originated in capacitance and resistive leakage current (I_{or}) originated in insulation resistance of the power line as below drawing.

For accurate leakage current measurements, it is necessary to measure true resistive leakage current (I_{or}) excluding capacitive leakage current.



(Vector of leakage current)



(Connection of voltage input cable)

SPECIFICATIONS

Safety standard	: IEC 61010-1, IEC61010-2-032, Installation Category II 600V or Category III 300V
Measuring function	: AC leakage current(I _o) AC Resistive leakage current (I _{or})
Jaw opening capability	: 40mm ϕ
Phase detection	: By voltage input
Measuring ranges	: 0~10mA/100mA/1000mA (I _o) 0~10mA/100mA (I _{or})
Input frequency range	: 45~65Hz (50 or 60Hz is selectable by switch)
A/D conversion	: Dual slope integration mode
AC conversion	: Average sensing rms reading
Display	: LCD max. 9999 count with annunciators
Sampling rate	: 1 time/sec.
Over range indication	: "OL" mark on LCD
Data hold indication	: "DH" mark on LCD
Low battery indication	: "Battery" mark on LCD
Limitation of circuit voltage	: Less than AC/DC 500V
Operating temperature	: 0~50°C, < 80%RH (without condensation)
Storage temperature	: -10~60°C, < 70%RH (without condensation)
Withstanding voltage	: AC 3700V/1 minute between CT and outer case
Auto power off	: Approx. 10 minutes after power on
Power supply	: LR03, AM-4 or AAA size Alkaline battery \times 3
Dimension	: 44(W) \times 200(H) \times 24(D)mm
Weight	: Approx. 210g
Accessories	: Carrying case.....1 Batteries.....3 Instruction manual.....1 Voltage input cable with fuse(3m)....1set

Accuracy (23°C \pm 5°C, less than 85%RH)

Function	Range	Resolution	Accuracy
I _{or}	10mA	0.001mA	\pm 1.5% rdg \pm 10dgt
	100mA	0.01mA	\pm 1.2% rdg \pm 10dgt
I _o	10mA	0.001mA	\pm 1.0% rdg \pm 10dgt
	100mA	0.01mA	\pm 1.0% rdg \pm 10dgt
	1000mA	0.1mA	\pm 1.0% rdg \pm 10dgt

Optional leakage current clamp adaptor

AC1000A,10:1 and 100:1 CT Ratio

Model LAD-800



Measuring Range	: AC 1000A
CT ratio	: 10:1 100:1
CT inside size	: 80mm×74mm
Limitation of circuit voltage	: AC 600V (50/60Hz)
Weight	: Approx. 500g

Zero phase current and load current measurements

Model LAD-1100



Measuring Range	: AC 3000mA~30A AC 30A~3000A
CT ratio	: 10:1 100:1
Range switch	: Rotary switch
CT inside size	: 128mm×108mm
Limitation of circuit voltage	: AC 600V (50/60Hz)
Weight	: Approx. 180g