

Io/Ior DIGITAL CLAMP TESTER

AC CURRENT/LEAKAGE/VOLTAGE

Model **MCL-500IR**



FEATURES

- Can measure the resistive leakage current (Ior) accurately by voltage input.
- Wide ranges for the measurement of AC load current, leakage current (Io), resistive leakage current (Ior), and AC voltage.

SPECIFICATIONS

1) CT Sensor

Inside Diameter of CT : 40mm
Influence of External Magnetic Field : less than 5mA nearby 100A conductor.
Withstanding Voltage : AC2200V, 1 minute

2) Measuring Part

Measuring Function : load current, leakage current (Io), resistive leakage current (Ior), AC voltage. (0~500V)
Measuring Method : CT clamp-on method
Measuring Range : 0-40mA, 400mA, 4A, 40A, 300A, 500A
Input Frequency : 50/60Hz
Detection Method : True RMS detection by analog operation
A/D Conversion : successive comparator method
Display : 3.5 digit LCD, max. reading of 4000
Sampling Rate : 2 times/second
Over Range Indication : "OL" mark on LCD readout
Battery Indication : Battery mark on LCD readout
Auto Power Off : automatically power off approx. 10 minutes after the final key operation
Data Hold Indication : "DH" mark on LCD readout
Ior Switch : pressing this key, Ior value will be displayed. pressing again, display will return to Io value.
Power Supply : 1.5V ("AAA" size, um-4)×3 or AC adaptor (option)
Power Consumption : Approx. 14mA (approx.45 hours with continuous use).
Limitation of Circuit Voltage : Less than AC 500V
Operating Temperature: 0°C~40°C, <80%RH(non-condensing)
Storage Temperature: -10°C~60°C, <70%RH(non-condensing)
Size & Weight : 70(W)×223(H)×34(D)mm
Approx. 440gs including batteries
Accessories : Battery (LR03).....3 (installed into the body case)
Voltage input test lead ... 1
Carrying Case 1
Instruction Manual 1

3) Measuring Ranges and Accuracy

	Range	Resolution	Accuracy
I.Io	40mA	0.01mA	0.40mA~39.99mA ±1.0%rdg ±10dgt
	400mA	0.1mA	40.0mA~399.9mA ±1.0%rdg ±10dgt
	4A	0.001A	0.4A~3.999A ±1.0%rdg ±10dgt
	40A	0.01A	4.0A~39.99A ±1.0%rdg ±10dgt
Ior	500A	0.1A	40.0A~499.9A ±1.0%rdg ±3.0%FS
	40mA	0.01mA	0.40mA~39.99mA ±1.5%rdg ±15dgt
	400mA	0.1mA	4.0mA~399.9mA ±1.2%rdg ±15dgt
V	4A	0.001A	0.04A~3.999mA ±1.2%rdg ±15dgt
	500V	0.1V	10.0V~499.9V ±1.0%rdg ±8dgt

Model **MCL-800IR**

High Precision - Big Window CT - Wide Ranges
Lowest Influence from External Magnetic Fields and Residual Current.



FEATURES

- Can measure the resistive leakage current (Ior) accurately by voltage input with minimum resolution of 0.001mA.
- Wide ranges for the measurement of AC load current, leakage current (Io), resistive leakage current (Ior), and AC voltage.
- MΩ Display on LCD up to 9.999MΩ

SPECIFICATIONS

1) CT Sensor

Inside Diameter of CT : 80mm
Withstanding Voltage: AC2200V, 1 minute

2) Measuring Part

Measuring Function : load current, leakage current (Io), resistive leakage current (Ior), AC voltage.
Measuring Method : CT clamp-on method
Measuring Range : 0-10mA, 100mA, 1000mA, 10Am (auto)
ACV:10V~500V,MΩ: 0.001MΩ~9.999MΩ
Input Frequency : 50/60Hz (manual)
Detection Method : RMS detection through average rectification
A/D Conversion : successive comparator method
Display : LCD, max. reading of 9999
Sampling Rate : 2 times/second
Over Range Indication : "OL" mark on LCD readout
Low Battery Indication : Battery mark on LCD readout
Auto Power Off : automatically power off approx. 10 minutes after the final key operation
Data Hold Indication : "DH" mark on LCD readout
Power Supply : 1.5V ("AAA" size, um-4)×3 or AC adaptor (option)
Power Consumption : Approx. 14mA (approx.48 hours with continuous use).
Limitation of Circuit Voltage : Less than AC 500V
Operating Temperature: 0°C~50°C, <80%RH(non-condensing)
Storage Temperature: -10°C~60°C, <70%RH(non-condensing)
Size & Weight : 71(W)×315(H)×37(D)mm, approx 750g
Accessories : Battery (LR03)..... 3pcs. (installed into the body case)
Voltage input test lead.....1set
Carrying Case.....1pce.
Instruction Manual1pce.

3) Measuring Ranges and Accuracy

Measuring Function	Range	Resolution	Accuracy
Io AC Current	10mA	0.001mA	±1.0%rdg±10dgt
	100mA	0.01mA	
	1000mA	0.1mA	
Ior AC Current	10A	0.001A	±1.5%rdg±20dgt
	100mA	0.01mA	
	1000mA	0.1mA	
AC Voltage	10A	0.001A	±1.5%rdg±15dgt
	500V	0.1V	