# Io/Ior DIGITAL CLAMP TESTER

# AC CURRENT/LEAKAGE/VOLTAGE

# Model MCL-500IR



## **FEATURES**

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

# SPECIFICATIONS

#### 1) CT Sensor

Inside Diameter of CT: 40mm Influ

maide Diameter of OT	•	4000
Influence of External Magnetic Field	:	less than 5mA nearby 100A conductor.
Withstanding Voltage	1	AC2200V, 1 minute

#### 2) Measuring Part

	t, leakage current (lo), lkage current (lor), (0∝500V)
Measuring Method : CT clamp-o	
	0mA, 4A, 40A, 300A, 500A
Input Frequency : 50/60Hz	UIIA, 4A, 40A, 300A, 300A
···· ·································	stastion by analog anarotion
	etection by analog operation
	comparator method
	D, max. reading of 4000
Sampling Rate : 2 times/sec	
Over Range Indication : "OL" mark of	
	k on LCD readout
	ly power off approx.
	after the final key operation
	on LCD readout
	s key, lor value will be
	pressing again,
	return to lo value.
	' size, um-4)×3 or
AC adaptor	
Power Consumption : Approx. 14r	
	hours with continuous use).
Limitation of Circuit Voltage : Less than A	
Operating Temperature: $0^{\circ}C \sim 40^{\circ}C$ ,	
Storage Temperature: -10°C~60°C	
Size & Weight : 70(W)×223	
	ogs including batteries
Accessories : Battery (LR	03)3
	to the body case)
	ut test lead … 1
	se1
Instruction	Manual·······1

#### 3) Measuring Ranges and Accuracy

	-	-	-
Range		Resolution	Accuracy
	40mA	0.01mA	0.40mA~39.99mA ±1.0%rdg ±10dgt
	400mA	0.1mA	40.0mA~399.9mA ±1.0%rdg ±10dgt
I.lo	4A	0.001A	0.4A~3.999A ±1.0%rdg ±10dgt
	40A	0.01A	4.0A~39.99A ±1.0%rdg ±10dgt
	500A	0.1A	40.0A~499.9A ±1.0%rdg ±3.0%FS
	40mA	0.01mA	0.40mA~39.99mA ±1.5%rdg ±15dgt
lor	400mA	0.1mA	4.0mA~399.9mA ±1.2%rdg ±15dgt
	4A	0.001A	0.04A~3.999mA ±1.2%rdg ±15dgt
V	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 (lor) accurately by voltage input with minimum resolution of 0.001mA.
- Wide ranges for the measurement of AC load current, leakage current (lo), resistive leakage current (lor), 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 rait	
	Measuring Function	: load current, leakage current (lo), resis- tive leakage current (lor), AC voltage.
	Measuring Method	: CT clamp-on method
	Measuring Range	0-10mA, 100mA, 1000mA, 10Am (auto)
	Measuring hange	ACV:10V~500V,MΩ: 0.001MΩ~9.999MΩ
	Input Frequency	; 50/60Hz (manual)
	Detection Method	RMS detection through average rectifi- cation
	A/D Conversion	: successive comparator method
	Display	: LCD, max. reading of 9999
	Sampling Rate	: 2 times/second
	Over Bange Indication	: "OL" mark on LCD readout
		: Battery mark on LCD readout
	Auto Power Off	
	Auto Power Off	: automatically power off approx. 10 min-
	Dete Heldladie die etien	utes after the final key operation
		: "DH" mark on LCD readout
	Power Supply	1.5V ("AAA" size, um-4)×3 or AC adap-
		tor (option)
	Power Consumption	Approx. 14mA (approx.48 hours with
		continuous use).
		: Less than AC 500V
	Operating Temperature	e: 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) Spcs.
		(installed into the body case)
		Voltage input test lead1set
		Carrying Case1pce.
		Instruction Manual1pce.

#### 3) Measuring Ranges and Accuracy

Measuring Function	Range	Resolution	Accuracy	
lo AC Current	10mA	0.001mA	±1.0%rdg±10dgt	
	100mA	0.01mA		
	1000mA	0.1mA		
	10A	0.001A		
	10mA	0.001mA	$\pm$ 1.5%rdg $\pm$ 20dgt	
lor AC Current	100mA	0.01mA		
for AC Current	1000mA	0.1mA	$\pm$ 1.5%rdg $\pm$ 15dgt	
	10A	0.001A		
AC Voltage	500V	0.1V	$\pm$ 1.0%rdg $\pm$ 10dgt	