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	