

DIGITAL CLAMP TESTER

AC/DC CURRENT

Model **270**

True rms reading
55mm ϕ CT



FEATURES

- Low cost high performance and true rms reading AC/DC clamp tester.
- 4000 count full scale display.
- Additional AC/DC voltage, resistance, frequency test, continuity check and diode test function.
- Auto power off and data hold function.
- Convenient push switch for auto zero adjustment in DC current measurement.

SPECIFICATIONS

- AC conversion : AC coupled true rms responding
 Safety standard : Meets the requirements for double insulation to IEC 1010-2-032, IEC 1010-1 (1995), EN 61010-1 (1995) installation Category III 600V phase to earth.
 E.M.C. standard : The instrument meets EN 50081-1 and EN 50082-1(1992)
 Withstanding voltage : AC 5500V, 1 minute (Between outer case and core of CT)
 Measuring method : Dual integration mode
 Jaw opening capability : 55mm ϕ
 Display : 3 1/2 digit LCD max. reading of 3999 and annunciators
 Over range indication : Blanking of all digits except MSD1 (Except AC/DC 2000A range)
 Low battery indication : "B" mark on LCD readout
 Sampling : 2 times/s
 Range : Auto or manual ranging, AC/DC current (Manual ranging)
 Data hold indication : "DH" mark on LCD readout

- Auto power off : The meter is set to power off mode approx. 10 minutes after the power switch on.
 Operating temperature : 0°C to 40°C, <80%RH (Non-condensing)
 Storage temperature : -10°C to 60°C, <70%RH (Non-condensing)
 Power supply : 1.5V ("AAA" size R03) \times 2
 Power consumption and battery life : Approx. 25mW, 90 hours continuous.
 Size : 85(W) \times 240(H) \times 34(D)mm
 Weight : Approx. 350g
 Accessories : Carrying case.....1
 Instruction manual.....1
 Batteries.....2
 Test lead.....1

Crest factor : <3 (0~50% of the range)
<2 (50~100% of the range)

Measuring ranges (23°C \pm 5°C, < 80%RH) :

Range	Resolution	Accuracy	Max. input
~A (50/60Hz) = A Manual range	40A	$\pm 2\% \text{ rdg} \pm 8 \text{ dgt}$	AC/DC 2000A
	400A		
	2000A		
~V (50/60Hz) = V Auto/Manual range	400mV	$\pm 1.2\% \text{ rdg} \pm 8 \text{ dgt}$ (50/60Hz)	AC/DC 600V rms
	4V		
	40V		
	400V		
	600V		
Hz Frequency Auto range	100Hz	$\pm 0.5\% \text{ rdg} \pm 3 \text{ dgt}$	AC/DC 600V rms
	1000Hz		
	10kHz		
	100kHz		
	1000kHz		
Ω (Resistance) Auto/Manual range	400 Ω	$\pm 1.5\% \text{ rdg} \pm 8 \text{ dgt}$	input protection
	4k Ω		
	40k Ω		
	400k Ω		
	4000k Ω		
Continuity check	400 Ω	0.01 Ω	$\pm 3\% \text{ rdg} \pm 10 \text{ dgt}$
			Continuity beeper
Diode test	3V	0.001V	250V rms

MINI DIGITAL CLAMP TESTER

AC/DC CURRENT AC/DC VOLTAGE RESISTANCE

Model **280**

meets safety Standard CAT.II 600V and CAT.III 300V



FEATURES

- 30mm ϕ CT window and ultra compact size
- Low cost and multi-function clamp tester.
- Data-hold function and auto power off.
- Conform to IEC safety requirements.
- Max. & Min.hold function
- One push zero adjust function for DC current range

SPECIFICATIONS

- Safety standard : Meets the requirements for double insulation to IEC 1010-2-032, IEC 1010-1(1995), EN 61010-1(1995) installation Category II 600V phase to earth, Category III 300V phase to earth.
 E.M.C. standard : The instrument meets EN 50081-1 and EN 50082-1 (1992).
 Measuring method : Successive approximation mode
 Display : 4 digit LCD max. reading of 9999
 Measuring range : AC Current 1000A
 DC Current 1000A
 AC Voltage 500V
 DC Voltage 500V
 Resistance 600 Ω
 Accuracy : 23°C \pm 5°C 80%RH or less
 AC Current (ACA) : 0~600A $\pm 1.5\% \text{ rdg} \pm 8 \text{ dgt}$, 600.1~999.9A $\pm 3\% \text{ rdg} \pm 8 \text{ dgt}$
 DC Current (DCA) : 0~600A $\pm 1.5\% \text{ rdg} \pm 6 \text{ dgt}$, 600.1~999.9A $\pm 3\% \text{ rdg} \pm 6 \text{ dgt}$
 AC Voltage(ACV) : 0~500V $\pm 1.0\% \text{ rdg} \pm 8 \text{ dgt}$
 DC Voltage (DCV) : 0~500V $\pm 1.0\% \text{ rdg} \pm 6 \text{ dgt}$
 Resistance (Ω) : 0~600 $\Omega \pm 1.5\% \text{ rdg} \pm 8 \text{ dgt}$
 Jaw opening capability : 30mm ϕ
 Over range indication : "OL" mark on LCD.
 Low battery indication : "B" mark on LCD
 Data hold indication : "DH" mark on LCD
 Max. display function : "Max" mark on display, indicating max. value during measurement.
 Min. display function : "Min" mark on display, indicating min. value during measurement.
 O adjustment : for DC current range, can make display to 0 by ADJ switch.
 Sampling time : 2 times/sec
 Circuit voltage : less than AC/DC 500V.
 Withstanding voltage : AC 3700V 1 minute max. (Between the core of CT and outer case)
 Operating temperature : 0°C to ~40°C <80%RH (without condensing)
 Storage temperature : -10°C to ~60°C <70%RH (without condensing)
 Power supply : SR-44(1.55V) \times 2 or LR-44 \times 2
 Battery life : SR-44, LR-44
 Power Consumption : Approx. 12mW
 Size : 44.5(W) \times 177(H) \times 24(D)mm
 Weight : Approx. 95g
 Accessories : Soft case.....1
 Instruction manual.....1
 Batteries, LR-44(1.55V).....2
 Test Lead.....1