

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

### SPECIFICATIONS

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 $\Omega$
Accuracy	: 23 $^{\circ}$ C $\pm$ 5 $^{\circ}$ C 80%RH or less
AC Current (ACA)	: 0~600A $\pm$ 1.5%rdg $\pm$ 8dgt, 600.1~999.9A $\pm$ 3%rdg $\pm$ 8dgt
DC Current (DCA)	: 0~600A $\pm$ 1.5%rdg $\pm$ 6dgt, 600.1~999.9A $\pm$ 3%rdg $\pm$ 6dgt
AC Voltage(ACV)	: 0~500V $\pm$ 1.0%rdg $\pm$ 8dgt
DC Voltage (DCV)	: 0~500V $\pm$ 1.0%rdg $\pm$ 6dgt
Resistance ( $\Omega$ )	: 0~600 $\Omega$ $\pm$ 1.5%rdg $\pm$ 8dgt
Jaw opening capability	: 30mm $\phi$
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 $^{\circ}$ Cto~40 $^{\circ}$ C<80%RH (without condensing)
Storage temperature	: -10 $^{\circ}$ Cto~60 $^{\circ}$ 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

## Model 290 RMS

True rms reading



### FEATURES

- 30mm $\phi$  CT window and compact size.
- 4000 count full scale display and true-rms reading for AC current.
- Conform to IEC safety requirements (IEC 61010-1, 61010-2-032 CAT II 600V).
- One push zero adjust function for DC current range.

### SPECIFICATIONS

Measuring function	: AC/DC current, AC/DC voltage and Resistance
Measuring method	: Clamp CT
Jaw opening capability	: 30mm $\phi$
Measuring ranges	: AC/DC 40A/400A manual, AC/DC 60V/600V auto, Resistance 0-1000 $\Omega$
Change of measuring range	: By rotary switch
AC current detection	: True RMS detection
A/D conversion	: Successive approximation method
Display	: Max. 4000 count on LCD with annunciator
Over range indication	: "OL" mark on LCD
Data hold indication	: "DH" mark on LCD
Zero adjustment	: For DC current range, by "O ADJ" switch
Sampling rate	: 2 times/sec.
Low battery indication	: "B" mark on LCD
Circuit voltage	: less than AC/DC 500V
Operating temperature	: 0~40 $^{\circ}$ C, < 80%RH (without condensation)
Storage temperature	: -10~60 $^{\circ}$ 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	: UM-4 $\times$ 3
Dimension	: 44(W) $\times$ 180(H) $\times$ 24(D)mm
Accessories	: Soft Case, Test Lead, Batteries, Instruction Manual
Accuracy (2 $^{\circ}$ C $\pm$ 35 $^{\circ}$ C, less than 80%RH)	

Range	Resolution	Accuracy
DC 40A	0.01A	$\pm$ 1.5%rdg $\pm$ 3dgt
DC 400A	0.1A	$\pm$ 1.5%rdg $\pm$ 5dgt
AC 40A	0.01A	$\pm$ 1.5%rdg $\pm$ 5dgt(50/60Hz)
AC 400A	0.1A	$\pm$ 1.5%rdg $\pm$ 8dgt(50/60Hz)
AC 60/600V	0.01V	$\pm$ 1.0%rdg $\pm$ 8dgt
DC 60/600V	0.01V	$\pm$ 1.0%rdg $\pm$ 6dgt
$\Omega$	0.1 $\Omega$	$\pm$ 1.5%rdg $\pm$ 8dgt

Crest Factor : less than 2.5