

## AC/DC Mini Digital Clamp Meter DE-3110/DE-3112 DE-3110R / DE-3112R(RMS)



DE-3110  
DE-3110R

Picture:DE-3110



DE-3112  
DE-3112R

Picture:DE-3112

### FEATURES :

- Auto Range
- Auto Power Off Selection
- One Touch To Zero Set (DCA)
- True RMS (DE-3110R/DE-3112R)
- Data Hold
- Resolution 0.01A
- Pocket Size
- High Accuracy

### DIMENSION & WEIGHT:

- 189(L) x 71(W) x 37(H)mm (7.44"x2.80"x1.46")
- DE-3110/DE-3110R:Approx. 220g (0.48 lbs.)
- DE-3112/DE-3112R:Approx. 210g (0.46 lbs.) (Including Batteries)

### ACCESSORIES:

- Battery AAA 1.5V.....2
- Instruction Manual.....1
- Test Leads (DE-3110/DE-3110R).....1
- Carrying Case.....1

### OPTIONAL ACCESSORIES:

- AC Line Splitter (DE-10ALS)
- \*Applicable to electrical appliances or small current

### SPECIFICATIONS:

- Clamp Size:  $\varnothing$  30mm or 10 x 35mm
- LCD Display:3/4 Digits LCD With 4300 Counts
- Sampling Reading Rate:2 Times/Sec. Approx.
- Over Range:Automatic
- Auto Power Off:Approx. 10 Minutes
- Over Range Protection "OL" Display on LCD and Beep
- Low Battery:  $\text{+}$   $\text{-}$  Display on LCD
- Battery: AAA Battery 1.5V x 2
- Applicable Height:Up To 2000m (above sea level)
- Applicable Circuit Voltage:AC 600V or Less
- Safety Standard:IEC 61010-1, IEC 61010-2-032 600V CAT. III Pollution Degree 2

### TEMP. / HUMIDITY:

- Operation:0°~ 50°C (32°F ~ 122°F) / Below 80% R.H. (no condensation)
- Storage:-10° ~60°C (14°F~ 140°F) / Below 70% R.H. (no nondensation)

### MEASUREMENT RANGES: (23°C $\pm$ 5°C, 80% R.H. MAX.)

\*Accuracy:  $\pm$  (%rdg+dgt) \*N/A: not available \*50~400Hz

Measurement	Range	Resolution	AVG		RMS		Accuracy
			DE-3110	DE-3112	DE-3110R	DE-3112R	
$\text{A}$ (ACA)	40A	0.01A	●	●	●	●	1.5% + 10
	400A	0.1A	●	●	●	●	1.5% + 5

Measurement	Range	Resolution	DE-3110	DE-3112	DE-3110R	DE-3112R	Accuracy
$\text{A}$ (DCA)	40A	0.01A	●	●	●	●	1.5% + 10
	400A	0.1A	●	●	●	●	1.5% + 5

Measurement	Range	Resolution	DE-3110	DE-3112	Accuracy	Input Impedance
			DE-3110R (RMS)	DE-3112R (RMS)		
$\text{V}$ (ACV)	4V	0.001V	●		1.0% + 5	11M $\Omega$ <50pF
	40V	0.01V	●			
	400V	0.1V	●	N/A		
	600V	1V	●			

Measurement	Range	Resolution	DE-3110	DE-3112	Accuracy	Input Impedance
			DE-3110R	DE-3112R		
$\text{V}$ (DCV)	4V	0.001V	●		0.75% + 2	11M $\Omega$
	40V	0.01V	●			
	400V	0.1V	●	N/A		
	600V	1V	●			

Measurement	Range	Resolution	DE-3110	DE-3112	Accuracy	Measuring Current	Open-Loop Voltage
			DE-3110R	DE-3112R			
$\Omega$	400 $\Omega$	0.1 $\Omega$	●		0.9% + 2	<1mA	<3.4V
	4k $\Omega$	0.001k $\Omega$	●				
	40k $\Omega$	0.01k $\Omega$	●	N/A			
	400k $\Omega$	0.1k $\Omega$	●				
	4M $\Omega$	0.001M $\Omega$	●				
	40M $\Omega$	0.01M $\Omega$	●				
					2% + 2	<0.7mA	<0.7V
					5% + 2	<70nA	<0.7V

Measurement	Range	Resolution	DE-3110	DE-3112	Accuracy	Open-Loop Voltage
			DE-3110R	DE-3112R		
$\text{b1}$ (BUZZER)	400 $\Omega$	0.1 $\Omega$	●	N/A	The buzzer turns on for resistances low than 50 $\Omega$ $\pm$ 25 $\Omega$	<3.4V

Remarks : The accuracy data for ACA is subject to the conductor to be measured at the center of the iron core (clamp jaw)